KCKV&W STEEPLECAB - ALCO 855 - LIRR MULTIPLE UNITS

RAILROAD MODEL CRAFTSMAN

AUGUST 1965
50 CENTS

ROCK ISLAND ALCO ROAD SWITCHER, CHICAGO

RUSS PORTER'S PRIVATE RAILROAD CAR - EJ&E NO. 40

BLUM'S
HOBBY HOUSE INC.

800 HURON RD.
Cleveland 15, Ohio

Most Everything for the Model Railroader

"IF IT'S AVAILABLE WE HAVE IT, OR CAN GET IT"

Choose from Our World Famous Train Selection
One of the Nation's Largest Year 'Round Stocks

F-7A 3.98

RTR **HI-F Drive**

S.P., ATSF, UP, CB&Q
PRR, C&O, B&O, C&NW

Hustler

Ready to Run
High-Fi-Powered
yellow, silver, red
black, bronze 3.88

ATHEARN GP 9

GN, WAB, B&O, SP **5.88**
CB&Q, ATSF, MILW. **RTR**

TYCO KITS
Pacific, Mikado or General . . 12.88
Shifter 9.88
Booster 6.98
Big Six 8.25

VARNEY

All metal S.D.A. Kits Gear Drive, Pre-painted, lighted.
SW 7 Diesel $7.88
4-6-0 10-wheeler 14.88
2-8-0 Consolidation 17.88

HO TWIN PACK

Full 2 AMP Twin controls. Circuit - breaker. Operates up to 4 trains 11.95

HO RAIL Code 100

99' Bundle
Brass 2.98
Nkl. Sil. 4.75
RAIL JOINERS
B-45¢ NS-60¢

CORK ROADBED

Flexible, 3 ft. sec.
25¢ Each. 24/4.99
Switch blocks 4,5,8, 30¢ ea.

18" RADIUS SNAP TRACK

Our Reg. 25¢
Straight or Curved
15¢ ea.

3 FT. FLEX TRACK

Code 100, brass rail, 25 for $10.00
49¢ each

Terminal Track

Reg. 75¢ 49¢

Re-Railer

Reg. 75¢ 49¢

15" Ra. Reg. 25c **17c**
90° X'ing Reg. 2.25 **1.79**
Lighted Bumper **59c**
6" Str. Track **10c**

CROSSING SIGNAL 1.49

with trigger track

CROSSING GATE
& Flasher w/track 2.49

½ PRICE SALE KMT KITS
for Lionel O & O27 & O Scale

ENTIRE MANUFACTURER'S STOCK
Factory Closeout—Quantities Limited
FANTASTIC SAVINGS

Buy Now for selection while quantities last. Authentic, easy to assemble, couple with Lionel. Complete with trucks and couplers. Minimum order, 3 kits.

Dummy Diesel Loco; CB&Q, Reg. 2.50, Now 1.25
Flat Cars; MKT, GM&O, L&M, B&O. Reg. 1.59, Now 79
Cabooses, NH, SR, CB&Q, MP, MKT, SLSF, Reg. 1.98, Now 99
These items available at reg. price—
Hopper Cars; NCY, C&EI 2.29
Powered Diesel; DC mir. 2 rail MP, MKT 8.95
2 Rail Tubular Track curve or straight. Reg. .29, Now 19
Supply Limited — Road names may be substituted.
VOLUME BONUS—10 Flat Cars, Set 6.66

LIONEL

		Reg.	Now
027	STRAIGHT TRACK . . . . . ea.		17c
54	Track Maintenance Car Powered	15.00	**6.50**
736	Berkshire w/smoke whistle (die cast)	50.00	**39.50**
2322	Virginian Diesel	65.00	**54.50**
2346	B&M GP-9	40.00	**29.95**
3424	OP Brakeman Car	10.00	**5.44**
3519	OP Satillete Car	7.95	**4.44**
3650	Searchlight Ext Car	10.00	**4.44**
3330	OP Submarine Car	9.00	**3.99**
3444	OP Gondola Car	10.00	**4.44**
3562	OP Barrel Unloader	11.00	**4.88**
6017	Caboose	3.50	**1.97**
6117	Work & Boom Car	3.50	**1.97**
6175	Rocket Car	6.00	**3.88**
6264	Lumber Car	6.00	**2.98**
6405	Piggy Back Car	4.95	**2.97**
6416	Boat Transport Car	6.95	**4.77**
6424	Auto Carrier Car	6.00	**3.97**
6562	Canister		**2.99**
6500	Aircraft Transport Car	6.00	**2.99**
6448	Exploding Box Car	6.00	**3.88**
6844	Missile Transport Car	6.00	**2.97**
6812	Track Maintenance	6.00	**3.47**
36	Op Car Re Cont	1.95	**1.19**
128	Animated News Stand	10.00	**6.66**
310-410	Set Billboards w/Blinker	3.75	**1.99**
350	Engine Transfer Table	15.95	**10.88**
334	Dispatching Board Collectors		**9.95**
264	Fork Lift Platform Set w/car	17.95	**12.95**
460	Piggy Back Unloader	12.95	**6.49**
175	Rocket Launcher	20.00	**10.88**
120	Super O Crossing 90°	2.95	**1.50**
130	Super O Crossing 60°	3.95	**1.99**

UNITED — TENSHODO

O-4-OT B&O Dockside	$13.95
UP 0-6-0	39.95
Omaha 0-6-0	37.95
USRA 0-8-0	44.95
Rock Island 0-8-0	44.95
Ma & Pa 2-8-0	37.95
ATSF 2-8-0	39.95
PRR L-1 2-8-2	49.95
ATSF 2-8-2	49.95
Frisco 2-10-0	49.95
ATSF 2-10-2	54.95
ATSF 4-6-4	54.95
Southern Ry. 4-6-2	49.95
C & O class H 2-6-6-2	79.75
2 Truck Climax	54.95
2 Truck Shay	54.95
2 Truck Heisler	54.95
EMD GP 20	28.95
EMD F-9 A & B Units	29.95
GN M-2 2-6-8-0	120.00
GN Q-1 2-10-2	89.50
C & O 0-8-0	79.95

LMB MODELS

B & O S1-2-10-2	$69.50
T & P 2-10-4	69.50
N & W 4-8-0	49.95
LS & MS 4-6-0	29.95
NYC (B&A) 2-8-4	64.50
UP Big Boy	169.50
NYC J3a 4-6-4	49.50

NARROW GAUGE HOn3

United R-G-S 4-6-0	$39.95
United C&S 2-6-0	37.95
United C&S 2-8-0	39.95
United D&RGW 2-8-2	59.95
Gem EBT 2-8-2	49.95
Kidder Porter 2-6-0	24.50
3' Code 70 NS Flex Track	1.25
Switch Kits NS Code 70 ea.	2.95
Code 70 Rail NS 99'	5.95
United SP 4-6-0	39.95

O SCALE CUSTOM LOCOS

Lobaugh 2-8-4 C&NW let.	185.00
Lobaugh 0-6-0 SP Van tdr	175.00
Lobaugh UP Challenger Dix	375.00
Scale-Craft 4-8-2 MT3 SP	250.00
Scale-Craft 4-6-4 NYC	225.00
Kemtron 4-8-4 NYC lttrd.	225.00
GM 600hp Sw du pw PRR	39.95
A-N F3 A unit single pwr. B unit dbl. power. Erie lett. both	125.00
A-N 4-6-2 Pacific Ptd.	125.00

All above locos ptd., ready to run insulated for 2 rail operation

HO HOUSES

88¢ EACH

A. Colonial B. Story & ½
C. Ranch D. Cape Cod
E. Ranch F. Split Level
Fiberboard Base, Trees, TV Antenna, Swimming Pools, Garages.

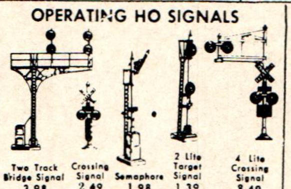
AMBROID 1 of 5000 KITS

No. 1 USN Helium Tank	$5.00
No. 2 Pull. Std. Box Car	5.25
No. 3 ACF Hopper (2 in. 1.)	7.95
No. 4 Riverside Oil Tank Car circa. 1914	5.00
No. 5 Two 70' Pulpwood Cars NEW	6.50

Ready To Run Cars
ATHEARN, TYCO, VARNEY, AHM, LIONEL, many others.
Asst. Reefers, Flat Cars, Box Cars, Gondolas.

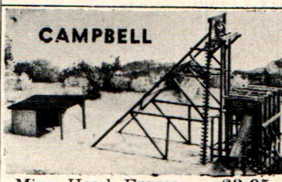
99¢ 12 for $10.88

OPERATING HO SIGNALS



Two Track Bridge Signal 3.98
Crossing Signal 2.49
Semaphore 1.98
2 Lite Target Signal 1.39
4 Lite Crossing Signal 8.49
Trigor Track to operate any of above . . . 1.49

CAMPBELL



Mine Head Frame	$3.95
Timber Oil Derrick	5.95
Curved Trestle	3.95
Water Tank	4.95
Timber Trestle	3.75
Double Track Truss Bridge	5.65

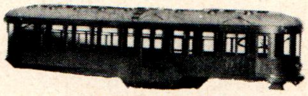
LA BELLE

"O" Scale Traction Kits
LSE Coach #23 . . . . $16.95
LSE Combine #16 . . . 16.95
LSE Frt. Motor #30 16.95

Body Kits Only, Hollow Milled Roof, Precision Basswood Parts. Complete Instructions, Less Hdw. Trucks, Poles, Pilots, and Couplers.

ALL BRASS LSE SCOOP PILOT ea. 1.75

"O" TRACTION



KEN KIDDER

Brass Built Up Bodies Youngstown & Southern #14	$65.00
Interstate Sleeper Ptd.	45.00
10 Bench Open Car	58.00
14 Bench Open Car	65.00
Sacramento Nor'ern 1007	65.00
Sacramento Nor'ern 1017	65.00
St. Louis Car Co. 1927 Lightweight as run on Shaker Rapid	27.00
Boston 12 Bench Open Car	65.00

BIG TURN TABLE
We have them! Ready to install. Complete with track. 16" Diameter.
Lionel or American Flyer . . $24.95
HO $19.95

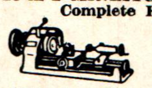
SPECIAL TRACKAGE FOR LIONEL OR FLYER

Gargraves. Realistic scale appearance, wood ties, bend to any desired pattern. Terrific:
Gargraves Flexible Track 3' sec. .95
New Gargraves Phantom Line SWITCHES:
Manual R or L pair 10.00
New Garg track w/iodized black center rail 3' sec. 1.00; 3' sec. stainless 1.25
(Looks just like Lionel Super "O" Flyer Flextrack 3' 95

AMERICAN FLYER

		Reg.	Now
26749	Bumper	1.98	**.97**
26748	ReRailer	2.00	**1.00**
23571	Truss Bridge	1.50	**.99**
	Maintenance Kit	3.00	**1.19**
	Grease, Oil, Track Cleaner		
24579	3 in 1 Multi Purpose Car	6.00	**2.97**
24577	Jet Engine Transport	5.00	**2.97**
24077	NP Stock Car	5.00	**2.97**
23601	Crossing Gate	5.00	**3.97**
23769	Aircraft Beacon	5.95	**4.88**
26746	Rubber Roadbed Str. or Curved, ea.		**.40**
26760	R/C Switch Old Style Pr.	17.98	**13.88**
26770	Manual Switch Old Style Pr.	8.98	**6.77**
26782	26 pc. Plastic Trestle Set	4.95	**2.97**
24057	Mounds Candy Box Car	5.00	**2.97**
931	Gondola	5.00	**1.97**
25515	Motorized Rocket Sled and		
25059	Rocket Launcher Car Reg. 18.95. Both		**5.99**
23830	Piggy Back Unloader and Car	5.00	**2.97**

10-in-1 MINIATURE MACHINE SHOP
Complete Home Workshop



16-in. long Unimat
Converts to 10 different tools for all hobby uses.
Easy payment plan
$139.50

WE STOCK & SERVICE WORLD'S LARGEST SELECTION LIONEL, AMERICAN, FLYER AND HO EQUIPM'T. $250,000 INVENTORY

BUY ON CREDIT

15% down payment on any locos or merchandise, balance 90 days, 6 months, 1 year. Up to $1,000 plus service charges. Send self-addressed stamped envelope with order, employment and complete confidential information.

Your ORDER MAILED the SAME DAY RECEIVED!
GUARANTEED FAST, SAFE DELIVERY — ANYWHERE

BLUM'S HOBBY HOUSE, Inc.
Dept. RMC
800 Huron Road
Cleveland 15, Ohio
Please send me:

Have:
☐ HO Ready-to-Run
☐ American Flyer
☐ HO Scale
☐ Lionel O
☐ Lionel 027
☐ O Scale
We Ship Anywhere in the World

I want Reference Cat. (plus bonus)
☐ '65 Lionel price folder 10c
☐ '65 American Flyer folder 10c
☐ HO Sale List 10c
☐ Pac. Fast Mail Cat. 50c NEW
☐ LMB Mod. Illus. Cir. 10c or SAE
☐ HO CATALOG $1.00
☐ New '65 O SCALE folder 25c

Postage and insurance—75c on HO, $1.00 on Lionel and AF
$1.75 on Lionel and Flyer orders over $20.00 Brass Locos Prepaid

Minimum Order on 3 ft. Track Sections—6 secs.
Track Postage $1.75 west of Mississippi

outside USA Add 10% for postage **Total**

☐ Check ☐ Money Order

MINIMUM ORDER $3.00

American Flyer Bargains

Lowest prices. Nation's biggest Flyer dealer. Biggest Selection. Bargain Circular. Save! Save! Save! 10c

BIG LIONEL BARGAINS

027 SUPER O O GAUGE — **65 Super Prices.** Huge selection. Unique items. Every available extra. Nation's largest Lionel stock. Low prices. Bargain Circular **10c.**

"O" GAUGERS NEWSALE

Brand New Folder custom locos, cars, kits, track, etc.—1000 items . . . 25c

NOTES ON AN OLD TIMETABLE

RAILFANS and railroad modelers are suddenly realizing with something of a start that the diesels which replaced steam engines on their favorite pikes are rapidly headed for oblivion, themselves being replaced with new second generation diesels. There is hardly a road in the country that hasn't already replaced some of its earlier power with new low hood units that pack in more horsepower and greater efficiency.

The railroads have also taken to emulating bus and trolley lines. There's nothing like a new paint scheme to attract attention to equipment and make old equipment look new. In some cases, fancy paint schemes have given way to solid colors adorned perhaps with a bold herald. Some other roads are forsaking black in favor of colors.

The above changes put a burden on the model firms and the decal manufacturers. All in all, the modelers have been treated quite well.

August 26-29 marks the dates of the NMRA National Convention at the Hotel Vancouver, in Vancouver, B. C. A partial rundown of events appears in the Model Railroad Timetable on page 15. And once again, it'll be our pleasure to make the Craftsman Trophy available to the model which best demonstrates originality in craftsmanship. We wonder if it'll be a third win for a Canadian, or a second win for an O gauger. Only time will tell. We hope to meet many of you there.

Hobby and other specialized magazines, such as Railroad Model Craftsman, are sometimes hard to find among the big mass circulation magazines that blanket the newsstands. If you are a regular newsstand buyer, we'd suggest that you buy from the same newsstand each month if it is at all possible. If you're vacationing, have your dealer save your copies for you, so you won't miss an issue. RMC is often available at resort area newsstands, usually grouped in with other hobby magazines. If you do miss an issue, chances are we'll be able to supply one when you return home.

It's been three years since we last polled our readers, and we're at it again this month. We'll be grateful if you'll fill in the survey found on pages 55-56 and mail them in to us. Any reader including a No. 10 size address envelope (No stamp required) will be sent a model railroad charter suitable for framing, as our way of saying thank you. Information garnered from the survey will be made available to manufacturers, so they will know better how to serve you.

Hal

August, 1965 Vol. 34, No. 3

RAILROAD MODEL CRAFTSMAN

Including TOY TRAINS combined with ELECTRIC TRAINS and HOBBY RAILROADING, MINIATURE RAILROADING, MODEL & RAILWAY NEWS, THE O GAGER, and THE MODEL MAKER (Est. 1924) Magazines.

• THE CREW •

HAROLD H. CARSTENS
EDITOR AND PUBLISHER

Viola Kaps, Art Director
Russell D. Porter, Midwestern Editor
William Schopp, Technical Editor
Stephen Ahlstedt, Shipping Dept.

Margaret Zabriskie, Finance Dept.
Eugenia Abate, Billing Dept.
Elizabeth Dickson, Circulation Manager
Naomi Drake, Dealer Service Dept.
Phyllis M. Carstens, Asst. to the Publisher

SPECIAL FEATURES

16 A Day At The Roundhouse.....Paul Jansen
20 Boomer Trail.....Photos From Our Readers
42 Styrene Engine House.....Dave Mecklem
44 Loco Builders Photos.....Nos. 217-222
48 Lionel 2600 and 2800 Series.....Toy Trains
55 RMC 1965 Merchandising Survey.....Reader Trends

PROTOTYPE AND PLANS

22 EJ&E Private Car No. 40, 1906, 1950.....Russ Porter
36 KCKV&W 45 Ton Steeplecab Loco.....Larry Jackman
28 Long Island Multiple Unit Cars.....Jeff Winslow
32 ATSF 150 Ton Depressed Cntr. Flat Car..Craig Bossler
34 Holman Absurdity.....Eric LaNal

CONSTRUCTION & TECHNIQUE

37 Smuteye Pump House.....Bill Baron
46 West Jersey & Atlantic RR, HO 13x17....Layout Doctor
50 Screws and Washers.....Bill Schopp

DEPARTMENTS

4 Safety Valve
9 Dispatchers Report
13 Model Railroad Timetable
52 Exchange Place
57 Test Track
11 Trouble Shooting
66 Advertising Index

THE COVER

Back in 1954 Rock Island road switchers used in commutation and local service were brilliantly painted in red and black, as this Alco unit caught by Hal Carstens near LaSalle Street Station during the NMRA 1954 national convention.

SUBSCRIPTIONS: Price 50c per copy; subscription $5.00 per year in the United States and Possessions and Canada. Foreign, and Pan-American subscription $5.50 per year. All communications about subscriptions and changes of address should be sent to: Circulation Manager, Railroad Model Craftsman, Ramsey, New Jersey 07446

RAILROAD MODEL CRAFTSMAN is published monthly by Model Craftsman Publishing Corporation, 6 East Main St., Ramsey, N. J. Harold H. Carstens, President; Henry G. Carstens, Vice President; Robert R. Merkle, Treasurer; Phyllis M. Carstens, Secretary. Entered as Second Class matter at the Post Office at Ramsey, New Jersey, May 25, 1957, under the Act of March 3, 1879. Additional entry at Sparta, Illinois, under the Act of March 3, 1879.

CONTRIBUTIONS: Articles, drawings and photographs are welcome. Contributors are advised to retain a copy of their manuscripts and illustrations. When requested, we will endeavor to return all material in good condition if accompanied by return postage. Payment is made upon publication. The contents of this magazine must not be reprinted without written permission of the publisher. Copyright 1965 by Model Craftsman Publishing Corporation. Printed in the U.S.A.

ADVERTISING
MAIN ADVERTISING OFFICES
RAILROAD MODEL CRAFTSMAN
Advertising Dept.
6 East Main St.
Ramsey, New Jersey 07446
Phone: (201) 327-1091

WEST COAST ADVERTISING
Joseph Mervish Associates
4721 Laurel Canyon, Suite 211
North Hollywood, Calif.
Phone: (213)-877-7556

HOBBY DEALERS,

Keep 'em Rolling!!

It's full steam ahead when you discover Western Model can supply you Model Railroading equipment, rolling stock and accessories.

Try us and see!!

Our personalized service covers 11 Western States, Hawaii and Alaska. There are 3 convenient locations for clear track delivery.

SINCE 1933

WESTERN MODEL Distributors

2080 East 25th St., Los Angeles, Calif.
1465 Factor Ave., San Leandro, Calif.
2602 West Encanto Blvd., Phoenix, Ariz.

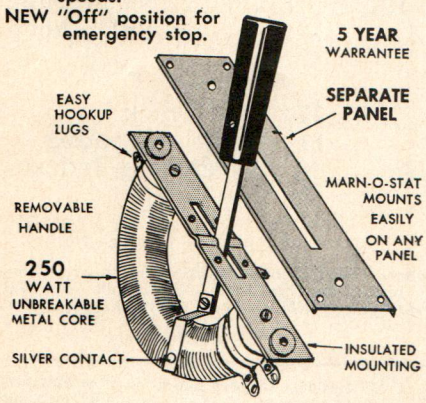
Sales to the Trade Only

NOW CONTROL

YOUR FINEST LOCO WITH the NEW Marn-O-Stat

NEW Potentiometer provides micrometer control of the smoothest-running loco at slowest speeds.

NEW "Off" position for emergency stop.



★ Realistic Throttle Action ★ Smoother Control
★ Easily Mounted ★ Panel Included.

1350 R (HO or TT) ea. $8.95
1330R (HO or S) ea. 8.95
1315R (O gauge) ea. 8.95
1390R for TAT circuits 8.95

ALSO: Complete power consoles, Power packs, Modular components, and electrical parts.

Marnold Catalog ..... $ .15
Walthers HO Catalog (incl. Marnold) 1.00
Walthers O Catalog (incl. Marnold) 1.00
Walthers Decal Catalog (HO-O) ..... .50

MARNOLD DIVISION
WM. K. WALTHERS INC.
1245 N. Water St., Milwaukee, Wis. 53202

SAFETY VALVE

Ex-Alco demonstrator 628 model sporting new Southern Pacific numbers at Taylor Yard, belongs to a 29 unit series, 4845-4873.

More New SP Diesels

Enclosed are photos of two new Southern Pacific diesels which I think S. P. fans might like to see.

Eng. 8501 (series 8500-8502) is a GE U-50. Plans of the U-50 appeared in the Feb. '64 issue of RMC.

Eng. 4871 (series 4845-4873, 29 units) is an Alco 628 and was painted black and gold when the photo was taken. Locomotives 4870-4873 are ex-Alco demonstrators. Plans of the 628 appeared in the Feb. '65 issue of RMC.

George A. Trager
16806 Glenborn Ave.
Torrance, Calif. 90504

C&O 2300 Class Photos Needed

I need a full side view of the tender of the C&O 2-8-2 2300 class locomotives, showing rivet detail. Also the cab. Can anyone help. This is a Vanderbilt type tender.

J. E. Springer
Compound Model Loco. Co.
605 12th St.
Garden City, Kansas

New York Central No. 4083

The New York Central Pacific which you show on page 36 of the June '65 RMC was built by the Dunkirk plant of the American Locomotive Company in Feb. 1925. This undoubtedly accounts for the shape of the plate which would be Dunkirk, rather than Lima. The various Alco plants did not always use the familiar rectangular plate. The K3r's were a small group, 4800-4804, built as CCC&StL Nos. 6500-6504.

Each year our recollection of prototypes gets hazier and we must rely more and more on information provided by historians, magazines, etc. For this reason, it becomes more important for importers to identify their models properly.

Since my own favorite railroad is the Southern Pacific, I pay more attention to SP than to most other roads, and occasionally note small errors from time to time. A model of an SP Mogul has been appearing for a few years now, offered by different importers variously as an M-8, M-21, and M-1. The model in question resembles the M-8 but not closely. It does not look like the M-21 and is never an M-1, the last class being vacant for a good number of years. There is an accurate replica of the M-21 offered by Austin which should not be confused with the model described above, which is otherwise quite excellent in appearance and workmanship.

Just to add to the general confussion, a new arrival on the scene is an A-5 Atlantic. The prototype A-5 had vanished by 1935 and did not resemble this model at all. It is probably intended that the new models should be A-6's which were four very modern rebuilt machines, Nos. 3000-3003.

Jeffrey Winslow
49 West 45th St.
New York, N. Y.

NOW . . . Ahm's NKP/PM
BERKSHIRE 2-8-4 . $27.95
"RENO" V&T 4-4-0 $18.95
GE U25c Diesel . . $16.95
all Postpaid USA

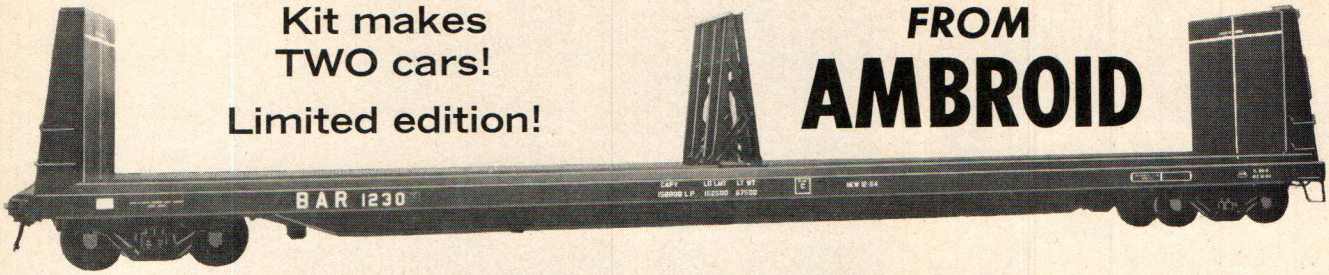
Crown Point Models
1015 Center — Bay City, Mich. 48708

NEW "One of 5000" HO KIT

Kit makes TWO cars!

Limited edition!

FROM AMBROID



A REAL BEAUTY — and one you won't find on every pike! This unusual 70-foot Pulpwood Car is a joy to build, with lots of interesting detail to challenge your skill. Designed and engineered by Northeastern Scale Models exclusively for Ambroid, the kit makes TWO COMPLETE CARS. Seasoned basswood throughout, with scribed flooring, decals, hardware and coupler pockets . . . double kit complete, ready to build . . . only $6.50 L/T.

REMEMBER . . . this is a LIMITED RUN and will never be re-issued! If your dealer hasn't received his quota of kits yet, ask him to save one for you!

AMBROID **AMBROID CO.** E. WEYMOUTH 88 MASSACHUSETTS

Single Point Switches

D. Eria asked about single point traction switches in the June '65 RMC. He should contact Dick Wagner, Wagner Car Co., 59 Euclid Ave., Wyoming, Cincinnati, Ohio 45215 about them.

Other sources include Sam Caldwell who does or did do custom traction trackwork. Bill Clouser, of St. Louis, also offers fine scale switch points that look real good. And Bert Sas of Model Tramway had some street traction turnouts, Hamo I believe, that were similar to the Tyco street trolley trackage.

Jim Soukup
4218 Allison Ave.
Norwood, Ohio 45212

Fire Engines Needed

Can you tell me where I can buy a fire engine or hook and ladder truck in HO? Hobby shops in Phoenix and Redlands are of the opinion that the one time Authenticast models are no longer available.

J. Bradford Brown
1427 Wilson St.
Tempe, Arizona 85281

Several very dandy fire engines are available from Viking Models, imported by Nathan Preston & Co., P. O. Box 187, Dept. O, Des Plaines, Ill. 60017 If the foreign cab style is not to your liking, cut the cab off and substitute a Mack or other domestic make cab The Viking models are nicely detailed and low priced. Ed.

Landesco's HO Pennsy Pike

Bravo to Alex Landesco and his Pennsylvania Model Railroad (June and July covers), for letting Walt Disney keep his "Carrousel of Color". It isn't often that so large a percentage of cars on model pikes are a sedate black, tuscan or boxcar red. The noticeable minority of multicolored "billboard" type cars (the streamliner being a permissable exception) adds to a prototypical, rather than sideshow, atmosphere. The beautifully executed scenic details are indeed complimented by the choice of rolling stock. Again, I say, BRAVO!

H. N. Romanetz
217 Thompson St.
South Amboy, N. J.

Even the real Pennsy is coming up with some pretty fantastic paint schemes for its freight equipment. Ed.

George Trager shot this Taylor Yard view of Eng. 8501, giant GE U-50, in Feb. 1965. Blunt nose is reminiscent of cab-forward.

NOW AVAILABLE

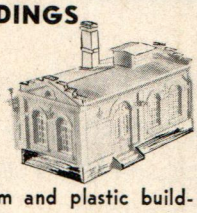
THIS IS the fifth booklet in the series of RECORD OF RECENT CONSTRUCTION, (reprints) RECORD No. 78 LOCOMOTIVES FOR INDUSTRIAL & CONTRACTOR'S SERVICE issued by Baldwin Locomotive Works—1917 6" x 9", 32 pages, 25 engine pictures & specifications and drawings for B&O engine No. 98

Special price $1.50 Postpaid

STEAM LOCOMOTIVES OF YESTERYEAR
40 Wilton Ave., Dept. MRC-3
Clifton Heights, Pa. 19018

VOLLMER

HO BUILDINGS



Over 100 different items, both kit and built up for the beginner and the advanced modeler. Among the many varieties are engine facilities, stations, industries, catenary system and plastic building sheets.

Vollmer Color Catalog 50c

PREISER HO FIGURES

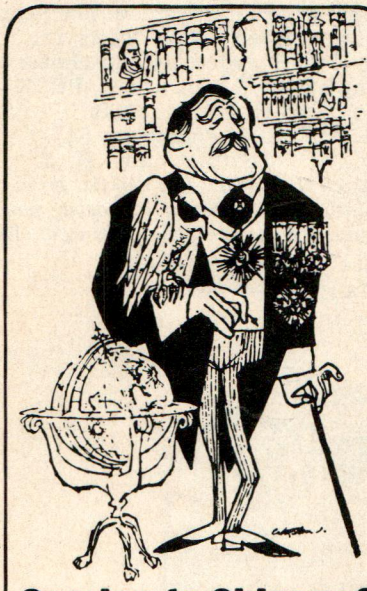
These finely detailed, hand painted figures are the perfect item to complete your favorite railroad scene. Choose from people, animals, and other interesting miniature pieces.

Send for our new Boyd Models catalog which shows all of our fine imported items. 40 pages. 50c

HAVE YOUR DEALER ORDER FROM

A. B. BOYD CO.

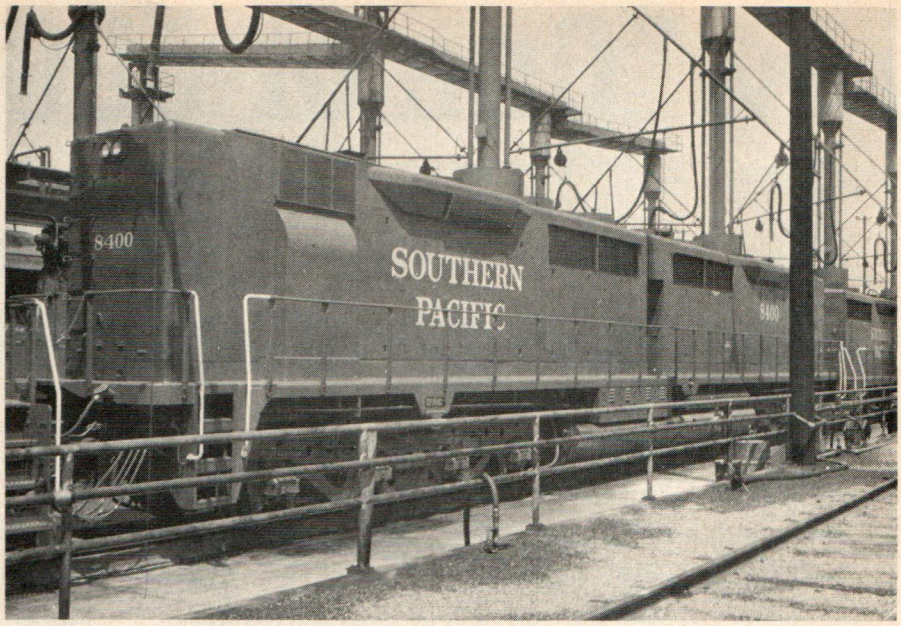
Exclusive U. S. Distributors
1036 S. Grand Ave., Dept. R,
Los Angeles, Calif. 90015



Coming to Chicago?

Stay in the heart of Chicago's exciting "Loop"... within walking distance of all the famous stores and great entertainment spots. Air-conditioned. 1500 rooms. Free TV and radio. No charge for children under 12. The only drive-in parking garage of any Loop hotel.

THE NEW
SHERMAN HOUSE
Clark & Randolph/Chicago/FR 2-2100



Giant Southern Pacific DD-35 diesel built by Electro-Motive as a mate to companion but smaller GP-35 low hood locomotives.

DD-35 Photo

RMC printed plans of the DD-35 in the Oct. 1963 issue, along with data, but there was no photo. The Southern Pacific has some DD-35's and the enclosed photo shows No. 8400 in the servicing area of Taylor Yard in Los Angeles. The local railroad men refer to this area as "Cape Canaveral", for reasons which are fairly obvious from the photo.

Incidentally, no manufacturer has as yet placed a model of this engine or the GP-35 on the market. Why?

Albert Novak
6131-B Walker Ave.
Maywood, Calif.

Thanks for sending the DD-35 photo. We can think up a number of very good reasons why no model of a GP-35 or DD-35 has as yet appeared on the market, aside from the problem engendered by the extra long length of the DD-35 which would create problems on today's "standard" 18 inch radius curves.

Sure Fire Train Starting

Sure appreciate and much agree with the sentiments of Leighton Keeling's letter in the Safety Valve, which you can assure him, expand upon, and are in entire agreement with my own. Better yet, I just wrote him.

However, this character "Ed" who writes in italics — I don't agree with at all. I'll admit that the Keeling System of Table Thumping may be pretty good stuff in HO, but have never seen the vastly superior Graff System of Table Kicking publicized, possible because O gaugers are somewhat in the minority.

At any rate, my ace in the hole is the "St. Bernard" system, which is infallable. When everything else fails, Mike, my 220 pound Swiss Saint Bernard is allowed in the railroad room. As he brushes under the railroad structure, the entire thing is subjected to a Richter magnitude 9.5 earthquake. If a stuck train doesn't start then, the locomotive MUST have a burned out motor. And, yes, Mike has met and knows "T Bone Beebe".

U. B. Graff
277 Bel Ayre Drive
San Jose 17, Calif.

Surely, there must be a better way! Ed.

S Gauger With A Problem

For several years I have been trying to obtain the following items of American Flyer rolling stock in S gauge: 24419 Canadian National Reefer, 24319 Pennsalt Chemical Tank Car, 24219 Western Maryland hopper, and 24221 C&EI Hopper.

All of these were listed in the 1958 and/or 1959 catalogs but I have never seen them. I haven't been able to get information from the manufacturer.

I am hopeful that one of RMC's readers can shed some light on this situation for me. I still want to add these freight cars to my AF collection.

Phil Sheridan
4486 Danforth Road
Columbus, Ohio 43224

American Flyer operators hungry for more ready to run equipment should look over Lionel's O-27 cars, most of which readily convert to S gauge by simply changing the trucks which have couplers attached of the Gilbert type. And there are also a number of good kits available to S gaugers for scale or tinplate.

More on Trophys

A few comments on Keeling's letter in the June '65 RMC. In general I agree with both Keeling and Graff. Contests do inspire us to better modeling and building. And if someone's redetailed imported loco comes out better than any scratchbuilt

model, after allowances for scratch-building, then the import should win the prize. However, if the import is passed off by its owner as scratch-built in order that he may have a better chance at the trophy, then the entire purpose of the contest has been debased.

Cars and structures are in a different category. People generally prefer to scratch build such items. Many people build for the trophy here and I don't see anything wrong with this since the contests often encourage this sort of thing. The GATSME Trophy in our local MER for the best narrow gauge model has been promoted with such slogans as "Get your name at the top of the GATSME Trophy".

If a modeler doesn't build just for the trophy's year after year but does make a concerted effort occasionally for something special, then I see nothing wrong with it. He knows he has to do a good job so he takes the extra pains necessary in his work. Isn't this just what contests are for — to improve the general quality of model building? What the model rail learns in building the contest model cannot help but improve his other work.

Deane Mellander
2705 Newton St.
Silver Spring, Md. 20902

Barnstorming Barnhart

I just tinker around trying to stir up trouble and controversy, not converts. Doubt very much you would get any applause from readers who learned via RMC that some nut bought a machine shop, acquired a photo reproduction business, finagled his way into the brass casting business, and now can spend about $25 and two weeks time making one passenger truck to non NMRA standards so it won't run on anybody's layout but his.

Kenneth E. Barnhart, Jr.
1450 East Barstow St.
Fresno, Calif. 93726

We're mighty happy that nuts like this are around today so commercial scale model railroading will be better in 1970. Ed.

Exchange Place Users Are Lazy

I have been reading RMC for 15 years without complaints but now I have one. Why don't the readers who take listings in Exchange Place ever answer letters that are sent to them? I've written a number and haven't received any answers.

Frank T. Cutali
45 Fleetwood Drive
Rochester, N. Y.

In our opinion, its common courtesy for Exchange Place users to answer their correspondence, even if just a postcard. On the other hand, it would help if readers writing to the various listings would include a stamped, addressed envelope. Ed.

MODEL RAILROAD AHC SALE CLEARANCE

Order-By-Mail From AMERICA'S HOBBY CENTER, 146 West 22nd St., DEPT. C, N.Y., N.Y., 10011

SAVE — F-7 DIESEL HI-F POWERED DRIVE 3.99 — AVAILABLE IN S.F., B&O., P.R.R.
TYCO "Big Six" 0-6-0 Switcher 8.25 KIT
VARNEY SW7 Switcher KIT 5.99 — choice of NH, B&O, SP, PRR.
Athearn's "RDC" READY-TO-RUN — BUDD RAIL DIESEL SF, NH, B & O. — COACH OR COMBINE DUMMY 3.95 POWERED 8.95
TYCO READY-TO-RUN F-9 DIESEL 8.95 — ROADS B&O CP ACL C&O D&RGW SF NH C&O PRR CN.
TYCO TROLLEY CAR 6.95 EA. — NON-POWERED - Nob Hill Broadway - Coney Island - Beal Street Main Street - Crosstown - Wabash Ave.
TYCO READY-TO-RUN 2-8-2 MIKADO LOCO & TENDER KIT $11.25 — GEAR DRIVE 16.95 EA.
ATHEARN "HUSTLER" READY-TO-RUN SALE 3.99 — TAKEN FROM LEFTOVER SETS NEW! GUARRANTEED
TYCO 0-4-0 BOOSTER 5.95 KIT — DIE CAST METAL 12 INCH RADIUS

ATLAS Operating Turntable 4.95 Ready-to Operate! Motor Drive Unit that motorizes above 3.95
TYCO AUTOMATIC COAL UNLOADING TRESTLE 6.98 WITH HOPPER CAR
NEW "HO" BUILDINGS — ATLAS — #715 PLASTIC KITS EASY TO ASSEMBLE — COCA COLA STAND 98¢ — 98¢
713 THREE TRACKSIDE SHACKS....98
714 SMALL WAREHOUSE....98
716 SMALL STONE DWELLING....98
717 BOAT HOUSE....98
718 BARN AND CORN CRIB....98
719 RURAL BARN....98
720 RANGER STATION....98
1.29 EACH — 729 FOUR GREEN HOUSES... 730 FLAG STOP STATION.... 727 BARN AND STABLE..... 726 LUMBER SHED..... 728 SUMMER COTTAGE
1.49 EACH — 738 SPLIT LEVEL HOUSE... 737 RANCH HOUSE..... 740 SHELL GAS STATION.... 739 2 HOUSES UNDER CONSTR. 1.98
#751 MODERN HOME 2.49 EACH — #759 WATER MILL — 759P WATER MILL PUMP 2.95 EACH
COAL LOADER Athearn 4.98 — READY TO OPERATE KIT $2.95
Athearn TWIN CROSSING GATE 2.95 — READY TO INSTALL OPERATES AUTOMATICALLY.

SALE — 3 FT. FLEXIBLE HO TRACK 49¢ minimum of 5 pcs Each — Our own "Amtron" brand. Made to our own & NMRA specifications. Solid brass "T" rail on heavy fiber tie strip. Nickl Silver 69c (Brass) 25 for $10.00 Atlas Track -3 Ft. -75c
HO RAIL — Code 100 Brass 2.98 Nkl. Sil. 4.79 99 Ft. Bundle — HO TIE STRIPS. — Track Tie Strip—25 Ft. $1.50 Switch Tie Strip—10 Ft. 2.00 Double Tie Strip—10 Ft. 2.50
AHC CORK ROADBED 25 for $5.99 — 25¢ EA — Flexible easily curved to match your track layout. Comes beveled for realism. NO MINIMUM ORDER! 3 Ft. Section — AHC CORK SWITCH BLOCKS for No. 4 or 6 25¢
TERMINAL or Re-Railer TRACK SALE 49¢ EACH
3 WAY SWITCH — ALL ASSEMBLED BRASS RAIL... ON REALISTIC TIE STRIP.... FULLY INSULATED NICKEL SILVER...$5.95 — 4.95
TRACK 19¢ Each SNAP TRACK — 3" STRAIGHT 6" STRAIGHT 9" STRAIGHT 15" RADIUS 18" RADIUS 22" RADIUS
"Thor" Switch MACHINE 1.19 — 6-24 volt AC-DC. Finest quality — for above or below train board mounting.
"HO" Switches — Our own "Amtron brand. Assembled #4 & #6 Rht or LH. Brass. Made to NMRA Specs. Nickel Silver 1.25 EA 1.95 EACH
IMPORTED REMOTE CONTROL SWITCHES 5.95 pair — ASSEMBLED MANUAL SWITCH 3.95 pr.

ACCESSORIES — FLOODLIGHT TOWER OR WATER TOWER SALE! YOUR CHOICE All metal 1.49 EA.
HO GAUGE OPERATING CROSSING SIGNAL 98¢ assembled & complete with bulbs
"HO" OPERATING Semaphore SIGNAL — FULLY ASSEMBLED & PAINTED, COMPLETE WITH BULBS 1.49
SET OF 2 Elec. Billboards 88¢ — HO Flashing action accessory kit, pre-wired w/bulbs.
PEA LAMPS .... 12 volt with leads. Choice of Red, Green, Amber or White 5 for 49¢
SALE DC METERS PANEL MOUNT 2¾" square w/bracket — 0-6 Amp 0-20 Amp 0-15 Volt 2.29 EA.
HOOK UP WIRE 25¢ 25 FT — HOOK UP WIRE, COILS ASSTD. COLORS... SINGLE 20 GAUGE SOLID PLASTIC COVERED 300 FEET.. 2.75
HO RIGHT OF WAY SIGNS — SHEET OF DECAL WITH 32 SIGNS (10 DIFFERENT KINDS) USUALLY FOUND AROUND RAIL ROAD YARDS REG... 30¢ — 15¢
8 POST TERMINAL 69¢ — Sale Priced! Strip of 8 Terminal hook-ups that you'll find handy for your layout. Very well made.
DECAL BARGAIN 99¢ — GRAB BAG ASSORTMENT, CONTAINS 6 COMPLETE STEAM LOCO DECAL SETS W/HERALDS ROAD NAMES, NUMBERS, ETC PLUS 44 MULTI COLORED HERALDS AND 32 ROAD MARKER DECALS.....

READY-TO-RUN HO CARS EACH 99¢ — SALE With N.M.R.A. Couplers — Penn Line OK HO Athearn Revell TYCO VARNEY — Removed from leftover train sets. Brand New and 100% Guaranteed. Your Choice: Tank Car, Box Car, Cattle Car, Reefer, Gondola, or Cab'se. Our Choice of Road Names and Mfr.
JEWELER'S PLIER KIT 4" — SET OF 7 5.99 — FLAT, ROUND, COMBINATION, ONE SIDE ROUND ONE SIDE FLAT, END NIPPER, SNIPE, & DIAGONALS. CHROME PLATED
48 "HO" SCALE Plastic Figures SET OF 48 PLASTIC PEOPLE & PASSENGERS. 98¢
METAL FIGURES #81 SET OF 3 FIGURES FIREMAN BRAKEMAN ENGINEER 29¢
1.29 STRAIGHT TYPE — ROSIN CORE SOLDER SOLDERING IRONS 15¢ — GUN TYPE 1.69
PRECISION SCREWDRIVERS 98¢ SET OF 5 imported — NOS. 1-2-3-4-5 — 5-Piece Precision Screwdriver Set for Watch & Jewelry Repairs
TOGGLE SWITCHES — SPST 29¢ — SPDT center-off momentary 69¢ — DPDT center off 98¢
AHC PARTS BOXES 6 FOR 50¢ — TRANSPARENT PLASTIC W/ HINGED TOPS. 1¼"x2¾"x¾" IDEAL FOR S ALL PARTS.
HOBBYIST'S FILES 98¢ SET OF 6 ASSORTED
BRUSH DEAL — 24 ASSORTED FINISHING CAMEL HAIR BRUSHES. NOS. 1 TO 6 — 24 for $1.00 SALE PRICED!

instant lettering — Railroad Roman ABCD45 — Extended Roman ABCD8 — Extended Gothic ABCD5 — 25¢ PKG. OF 2 SHEETS — EASY TO PUT ON! — NOW PRECISE, SHARP LETTERING FOR YOUR SCALE MODELS! — INSTANT LETTERING BRINGS YOU SHARP, ACCURATE, OPAQUE LETTERING THAT TRANSFERS WITH EASE. PACKAGE OF TWO 3"x 5" SHEETS. AVAILABLE IN BLACK-WHITE-RED-GOLD-SILVER. 1/16"-1/8"-5/32"- & 3/16" SPECIFY FACE TYPE, SIZE & COLOR.
PAUL MALLORY BOOKS IN HANDY 64 PAGE 25¢ EA — MINI BOOK SIZE — R1 BASIC ELECTRICITY R2 HO TRACK LAYOUT R3 POWER SUPPLY & WIRING R4 HO ELECTRICAL DATA R5 GUIDE TO MODEL R.R. R6 GET MORE OUT OF MODEL RAILROADING
ALL METAL HO TRUCKS 50¢ PR. — AAR Bettendorf Sprung Freight Trucks Nylon Tks. 3 Pr. $1.00
14 Pc. COUNTRY STORE ALL METAL HO SCALE — Your Choice HO ROAD GANG SET 50¢ EACH

Order-By-Mail From AMERICA'S HOBBY CENTER 146 C West 22nd St., New York, N.Y. 10011

"AHC" IS THE PLACE TO BUY PARTS AND ACCESSORIES

AHC HAS 'EM ALL! ALMOST EVERYTHING IN "HO"

• OVER 40,000 DIFFERENT MODEL BUILDER SUPPLIES IN STOCK RIGHT NOW

ORDER BY MAIL FROM AMERICA'S HOBBY CENTER, 146 C WEST 22nd. STREET, N.Y., N.Y., 10011

PARTS & ACCESSORIES

NO.201.... 35¢ — 2 PR. NMRA COUPLER LESS DRAFT

NO.202.... 49¢ — 2 PR. NMRA COUPLER WITH INTEGRAL SPRING

NO.203.... 39¢ — 1 Pr. Couplers with straight springs

NO.204.... 29¢ — 24 PCS. For all LOCO'S DRIVE BELT

NO.205.... 29¢ — 24 PCS. BRONZE COUPLER SPRING Universal type for all Couplers

NO.206.... 29¢ — 24 PCS. STEEL TRUCK SPRINGS For all HO Trucks

NO.207.... 39¢ — 36 PCS. BRASS RAIL JOINERS

NO.208.... 49¢ — 36 PCS. NICKLE SILVER RAIL JOINERS

NO.209.... 29¢ — 12 PCS. AMBER INSULATED RAIL JOINER

NO.210.... 39¢ — 12 PCS. TERMINAL TRACK CONNECTOR

NO.211.... 49¢ — 1 CIRCUIT BREAKER ONLY

NO.212.... 29¢ — 10 FT. MOTOR FLEX WIRE

NO.213.... 29¢ — 12 PCS. ASST. MACHINE SCREWS

NO.214.... 29¢ — 12 PCS. ASST. MACHINE NUTS

NO. 215.... 59¢ — Needle Point Smoke Fluid.

NO.216.... 29¢ — 48 PCS. #4-3/16 INSULATING FIBRE WASHER

NO.217.... 29¢ — 48 PCS. BRASS WASHERS #4 x 3/16

NO.218.... 29¢ — 12 ASST. SOLDERLESS TERMINAL LUGS

NO.219.... 39¢ — 4 x 48 x 5/32 10 SETS REPLACEMENT SCREWS NUTS ATLAS

NO.220.... 49¢ — 750 HO ROUNDHEAD TRACK SPIKES

NO.222.... 29¢ — 12 PCS. 0 x 5/16 SELF TAP SCREWS

NO.223.... 59¢ — 1 PR. H.O. SPRUNG FREIGHT TRUCKS

NO.221.... 29¢ — 12 PCS. 0 x 5/32 SELF TAP SCREWS

NO.224.... 29¢ — 4 STRIPS ASST. EMERY-PAPER

NO.225.... 49¢ — 3 SETS EXTENSION SET ATLAS SWITCHES

NO.226.... 49¢ — 2000 H.O. OFFSET SPIKES

NO.227.... 49¢ — 3 SETS THROWBAR SET ATLAS SWITCHES

NO.228.... 29¢ — 12 PCS. ELECTRIC WIRE NUT CONNECTOR

NO.231.... 69¢ — 1 COMPLETE SET CIRCUIT BREAKERS

NO.236.... 29¢ — 2 x 3/8 24 PCS. 0 & 027 TRACK MOUNTING SCREWS

NO.237 29¢ — 15 PCS. BRASS MOUNTING SCREWS ATLAS ELECTRICAL ITEMS

NO.238.... 29¢ — 256 x 5/16 12 PCS. SELF TAP TRUCK SCREWS

NO.239.... 29¢ — 3 x 1/2 24 PCS. For O & SUPER O TRACK MOUNTING SCREWS

NO.241.... 29¢ — 6 FT. ROSINCORE MATCH SOLDER

NO.242.... 35¢ — TRACK CLEANER BLOCK

NO.243.... 49¢ — SCREWDRIVER SET WITH 3 BLADES

NO.244.... 39¢ — SET (2 PC.) REGULAR & RECESSED SCREWDRIVER

NO.245.... 49¢ — 500 PCS. H.O. & S ROUNDHEAD TRACK N' CORK SPIKES

NO.931 PIGTAIL LITE KIT 25¢ — MIN. BULB TO LITE ACCESSORIES, BULB REPLACEMENT..20¢

PERFECT

RAILROAD ACCESSORIES

- Snap-On Track Cleaner — 35¢
- HO Track Connector — 35¢
- House Lighting Kit — 50¢
- Needle Point Grease Gun — 60¢
- Mechanical Fingers — 90¢
- Needle Point Oiler — 60¢
- NMRA Couplers w/ Draft Gear (2) — 35¢
- Mounting Screws & Nuts (6 ea.) — 15¢
- NMRA Couplers w/ Inl. Spring — 20¢
- Spring Freight Trucks (pr.) — 50¢
- NMRA Coupler Springs (6) — 15¢
- HO Truck Springs (12) — 15¢
- Track Cleaner — 30¢
- NMRA Uncoupling Ramp — 50¢
- Screw Driver Set — Jewelers — 50¢
- Abrasive Sheets (6 asstd.) — 25¢
- Connector Cord Set (3 ft.) — 35¢
- Terminal Lugs (solderless) — 15¢
- Wire Connector Nuts (6) — 15¢
- Match Solder (2 ft.) — 25¢
- Tiny Screw Driver Set — 35¢
- Mounting Wood Screws (14 asstd.) — 20¢
- Hook-Up Wire (6 ft.) — 25¢
- NMRA Couplers w/ Spring (2) — 25¢
- Rail Joiners — Insulated (12) — 15¢
- Machine Screws 2-56 (12 asstd.) — 20¢
- Machine Screw Nuts (12 asstd.) — 20¢
- Washers — #4 (18 asstd.) — 15¢
- HO Rail Spikes (1,000) — 35¢
- Track & Cork Spikes (250) — 20¢
- Red Grain of Wheat Bulbs (2) — 30¢
- Round Head Track Spikes (750) — 35¢
- Pea Bulb — Screw Base — 12-15 V. — 20¢
- Truck Screws (self-tap 2 x ¼") (6) — 15¢
- Neoprene Belt Drives (12 asstd.) — 15¢
- Clear Grain of Wheat Bulbs (2) — 30¢
- Green Grain of Wheat Bulbs (2) — 30¢
- White Pea Bulb — 12-15 V. — 15¢
- Rail Joiners — Brass (12) — 15¢
- Slide Switch — SPST — 30¢
- Self-Closing Forceps — 30¢

AHC HAS THE WORLD'S LARGEST STOCK OF "HO"

MODEL HOBBIES

SCRATCHBUILDER SUPPLIES

902 CAST DOOR ASST. 50¢ — 903 CHIMNEY ASST. 50¢ — 904 PLAT-FORM ACCES. 50¢ — 905 PLAT-FORM TRUCK 50¢

907 8"x10" CELLULOID 25¢ — 908 ASST. WOOD $2.50 — 909 STRIP-WOOD LARGE ASST. $2.50 — 910 LARGE WINDOW SET 50¢

911 MEDIUM WINDOW SET 50¢ — 912 SMALL WINDOW SET 50¢ — 913 SIGN ASST. 50¢ — 914 WOOD DOOR ASST. 50¢

916 HINGE SET 50¢ — 917 WOOD OUTHOUSE 50¢ — 918 WOOD BOLSTER 50¢ — 919 FARM ANIMALS 50¢

920 FARM ACCES. 50¢ — 921 STATION ACCES. 50¢ — 922 ROOF SUPPORT 50¢ — 923 STATION WINDOW & PHONE BOX 50¢

924 TRACK NAILS 50¢ — 925 GRAB IRONS 50¢ — 926 3/8" MODEL PINS 50¢ — 927 WATCH-MANS SHANTY 50¢

TRACK SPIKERS — NEW HI-SPEED TRACK LAYER 125 — GAUNT SPIKER 75¢

SPIKES — VARNEY OFFSET HEAD NLB. .50; PERFECT SQUARE OFFSET .20; UPC #13 SQUARE SHANK(2000) .49; UPC #126 ROUND HEAD (750) .49

METAL TRACK GAUGES — WALTHERS.. .35; TROXEL.... .85; M.E.W.... .35; VARNEY.... .30

RE-RAILERS — ATLAS..... .60; VARNEY.... .39; PENN LINE. .50; TYCO..... .49

TYCO #101 BLVD. STREET LAMPS 98¢ — LIGHTING KIT 49¢

ATLAS STATION PLATFORMS 98¢ KIT — ATLAS RESTAURANT KIT 2.98

AHC HAS ALMOST EVERYTHING

WE STOCK OVER 40,000 DIFFERENT MODEL BUILDER SUPPLIES • FAMOUS BRANDS

MODEL RAILROAD FANS ! TRY 'AHC' FIRST FOR THE SMALL PARTS & ACCESSORIES YOU WANT ! WE CARRY A FANTASTICALLY LARGE HO PARTS INVENTORY...IN STOCK THE ENTIRE YEAR ! SEND US YOUR ORDER 99 CHANCES OUT OF 100 WE CAN SHIP WHAT YOU WANT IMMEDIATELY !

928 BAGGAGE TRUCK W/LOAD 50¢ — 929 TRACK-MANS ACCES. 50¢ — 930 SCALE CHAIN 50¢ — 931 ASST. BRAKE WHEELS 50¢

932 NMRA COUPLER PR. 50¢ — 933 WOOD DOWEL ASST. 50¢ — 934 1/32" WOOD STRIPS 50¢ — 935 1/16" WOOD STRIPS 50¢

936 ASST. WOOD SCREWS 50¢ — 937 1/4" NAILS 50¢ — 938 1/4" BRADS 50¢ — 939 3/8" NAILS 50¢

940 ASST. ELEC. PARTS 50¢ — 941 ASST. WASHERS 50¢ — 942 PLASTIC WINDOWS 50¢ — BLOCK OF CROSS SIGNAL 4/49¢

JEWEL MARKER LIGHTS 60¢ EA. — HX900 2 RED 3 GREEN; HX902 2 RED 2 GREEN; HX901 1 RED 3 AMBER; HX903 2 RED 2 AMBER

95¢ CLIFF LINE SINGLE TUNNEL PORTAL

CHAIN LINK FENCE — SEMAPHORE IND. 6 FT. HIGH $1.95; 12 FT. HIGH $2.95

TELEPHONE POLES — BACHMANN DOZEN.. .45; REVELL DOZEN.. .49; ATLAS DOZEN.. .49

LANDSCAPING

29¢ EACH — COAL, BALLAST GRAVEL, BLACK STONE, RED OR GRAY STONE..

BALLAST CEMENT PINT 59¢ — FOR CEMENTING SCENIC MATERIAL TO LANDSCAPES..

LICHEN MOSS — EACH 98¢ — H604 GREEN, H605 AUTUMN

GRASS 59¢ — JUMBO BOX REALISTIC IMITATION

MAK-A-MOUNTAIN COMPOUND $1.00

SPRAY CANS 100 EACH — EARTH, GRASS, SAND, BALLAST OR ADHESIVE.

PERMA-SCENE — COMPOUND MAKES REAL TERRAIN 8 SQ.FT. PACKAGE 100; 20 SQ.FT. PACKAGE 200

COMPLETE SCENIC TERRAIN KIT WITH SCREEN 3.49

TREES — PACKAGE OF SIX 98¢ — SHADE TREES, FRUIT TREES, PINE TREES, SPRING TREES, ASSORTED TREES, EVERGREEN TREES, AUTUMN TREES, ORANGE TREES, APPLE TREES

OPERATING ELECTRIC SIGNS — SEMAPHORE INDUSTRIES

SM1610 VALLEY LUMBER CO. 1.95; SM1611 KAY'S CAFE 1.95; SM1612 ACME MFG.CO. 1.95; SM1613 GENERAL STORE 1.95

BLDG. PAPERS

WALTHERS 25¢ PER PACKAGE 5"x9" SHEETS EACH PACKAGE CONTAINS 4 SHEETS

V168 DOORS & WINDOWS, WHITE
V160 CONCRETE BLOCKS, GRAY
V163 FIELDSTONE
V166W CLAPBOARD SIDING, WHITE
V166G CLAPBOARD SIDING, GREEN
V166Y CLAPBOARD SIDING, YELLOW
V166R CLAPBOARD SIDING, RED
V167 RED BRICK (2 COLOR)
V169 FLAGSTONE & PATIO, GRAY
V172 SLATE SHINGLE, GRAY
V173 WOOD SHINGLES, GREEN
V174 WOOD SHINGLES, RED
V175 WOOD SHINGLES, BROWN
V176 WOOD SHINGLES, GRAY
V161 ASHLAR STONE BLOCKS, YEL.
V162 BRICK, YELLOW
V162G BRICK, GRAY OR SMOKEY
V164 ASHLAR STONE, RANDOM
V483 ASPHALT SHINGLES, GRAY
V484 ASPHALT SHINGLES, RED
V485 ASPHALT SHINGLES, BROWN
V486 ASPHALT SHINGLES, GRAY
V508W BATTEN SIDING, WHITE
V508G BATTEN SIDING, GRAY
V508R BATTEN SIDING, RED
V179 SAMPLER (12 SHEETS, OUR CHOICE) .60

CELLULOID 4"x7" SHEETS
V506 RESIDENTIAL WINDOWS .25
V340 INDUSTRIAL WINDOWS .25
V502 UNPRINTED WINDOWS .25

PREFORM GRAB IRONS 144/ $1 — BRASS HAND RAILS 12/ 45¢ — VALVE GEAR RIVETS 12/ 35¢ — METAL BELLS 6/ 25¢

1743 TRU SCALE BUMPER PLAIN .59; ILLUMINATED .98

MHP DIAPHRAGHMS STANDARD...75; STREAMLINE..85

PAINTS

Floquil — EACH 1 OZ. JARS 60¢ — FLAT BLACK, ROOF BROWN, EARTH, CONCRETE, FLESH, GRAY, DIES, DARK-GREEN, DIES, LIGHT GREEN, PULLMAN GREEN, COACH GREEN, DIES APLE, REEFER ORANGE, PRIMER, BOOSE RED, BOX CAR RED, REEFER YELLOW, TUSCAN RED, REEFER WHITE, BRASS, CLEAR GLOSS, CLEAR GLAZE, DEPOT-OLIVE, VARNISH, GOLD, JADE GREEN, COPPER, TRIM GREEN, FOUNDATION, THINNER AND MANY OTHER COLORS.

WEATHERING KIT — KIT CONTAINS: GRIMY BLACK, DUST, GRIME, RUST, MUD, & DIO-SOL THINNER. 1.98

BLDGS. & STRUCTURES

TYCO #104 YARD SPOTLIGHT TOWER 149 EACH — #106 2 LIGHT FLOODLIGHT TOWER

TYCO #105 BLINKING MICROWAVE TOWER 149 EACH — #107 4 LIGHT FLOODLIGHT TOWER

FIGURES

WESTON MINI-FIGURE CO. — SUPER DETAILED, HAND PAINTED FIGURES & ACCESSORIES 65¢ EACH

200 ENGINEER
201 FIREMAN
202 RED CAP & LUGGAGE
203 RED CAP
204A STATION MASTER
204B PASS.BRAKEMAN
204C PASS.CONDUCTOR
205 FREIGHT BRAKEMAN-HANGS ON LADDER
206 FREIGHT CONDUCTOR BAGGAGE MAN OR STRET CAR MOTORMAN
207 FREIGHT BRAKEMAN
208 DINING CAR WAITER
209 PULLMAN PORTER
212 HOBO, RECLING
215 LOAFER
217 MRS.SPUMONI
223 WALKING WOMAN
224 MAN SEATED
228 OLD MAN WALKING
229 YOUNG MAN WALKING
230A SWEATER GIRL, RED-HEAD
230B SWEATER GIRL, BLONDE
231 FLEXIBLE FREEDDY
233 THE THINKER
234 OLD TIMER
235 KIBITZER
237 ENGINEER 1890
238 MAN 1890
239 COP 1890
240 LADY 1890
241 TELEGRAPHER
242A BLACKSMITH ONLY
245 SHERIFF
246 DRUNK
247 MAILMAN
248 STREET SWEEPER
249 TELEPHONE LINEMAN.

ACCESSORIES (WESTON)
211B HOBO SEATED, WITH STICK AND BUNDLE.
213 HOBO, WALKING
275 SECTION HAND WITH SHOVEL
227 SECTION HAND WITH PICK....75¢ EACH

100 SIX ILLUM.LAMP POST.. 1.60
102 HAND CAR 1.50
102-216 HAND CAR & RIDER. 2.00
103 POT BELLIED STOVE .25
104 CHAIR .25
105 WHEELBARROW .30
108 SECTION TOOLS (6) .60
109 RESTAURANT SET, GARBAGE CAN CASH REG. & COFFEE URN .30
119 HAND TRUCK .30
120 LAMN MOWER .30
121 SAW HORSE (2) .30
122 STEP LADDER .35
123-124 HAMMER & SAW .25
125 ACCESSORIES SET #119 THROUGH 124 1.35

WESTON FIGURES

126 HOME MADE CHAIR .25
127 BOXES (SET OF 2) .30
128 CHECKER BOARD .30
129 ANVIL .25
132 SWEEPERS CART .30
210 LADY IN THE LAKE .30
210A LADY'S CLOTHES .30
211A SEATED HOBO WITH STICK, CAN AND FIRE .85
211B SEATED HOBO WITH STICK, AND BUNDLE .75
214 COMPLETE HOBO SET, THREE FIGURES & ACCESSORIES. 2.25
216 HAND CAR RIDER .60
218 PISTACHIO(SPUMONI JR) .50
219 MRS.SPUMONI, PISTACHIO & THE FAMILY WASH 2.65
220 OLD MAN ASLEEP .60
221 ASSORTMENT OF SIX FREIGHT TRAIN FIGURES 3.90
222 ASSORTMENT OF SIX PASSENGER TRAIN FIGURES 3.85
226-105 SECTION HAND WITH WHEELBARROW .90
236 CHECKER PLAYERS, SET OF 3 FIGURES, 2 BOXES, HOME MADE CHAIR, SLEEPING DOG, AND CHECKER BOARD 3.00
242 BLACKSMITH WITH ANVIL AND HAMMER .95
243 COMPLETE SET OF OLD TIME FIGURES, 6 FIGURES, ANVIL & HAMMER 4.00
248-132 SWEEPER & CART ANIMALS .85
400 DOG SCRATCHING .25
401 PIGEONS SET OF 6 .60
402 COLLIE .25
403 DOG SLEEPING .25

MEW MODEL ENGINEERING WORKS — UNIQUE MINIATURES IN HO SCALE

SWITCH STANDS
S1 HI-LEVEL SWITCH STAND.$.90
S2 GROUND THROW SW.STAND...75
S30 HARP SWITCH STAND KIT...59
S31 HARP SW.STAND FINISHED..90

RAMAPO SWITCH STANDS
502 HIGH FOR MAN. SWITCHES..9P
503 HIGH FOR ELECT.SWITCHES.75
504 LOW FOR MAN.SWITCHES....98
505 LOW FOR ELECT.SWITCHES..75

STAR SWITCH STANDS
509 HIGH FOR MAN.SWITCHES...98
510 HIGH FOR ELECT.SWITCHES.75

MINE ACCESSORIES
800 CALICO MINE SET.....$1.89 (MINER, CAR, PICK, SHOVEL, 2PCS.STRAIGHT TRACK)
801 MINE CAR ONLY .89
802 MINE TRACK STRAIGHT....35
803 CURVED TRACK, 2" RADIUS.35
804 KICK SWITCHES, PAIR.....50
805 TIMBER CAR .89
809 "MIKE" THE MINER .65
810 PROSPECTOR 'PETE 75

IRON HORSE MINIATURES
500 RAILWAY MAIL CRANE...$1.25
501 DERAIL SET.....$1.25
506 MARKER LAMP SET GGR.....75
507 EXTRA MARKER BKTS.....25
508 MARKER LAMP SET YYR.....75
511 HAYES BUMPER .59
512 "AB" UNDERBODY SET.....98
513 "K" UNDERBODY SET.....98

COUPLERS & TRUCKS

COUPLERS — KADEE MKD 5&10 MAGNETIC DELAY ACTION WITH DRAFT GEAR 2 PR. 1.20; UNCOUPLING RAMP FOR ABOVE .98; RAIL LINE NMRA W/DRAFT GEAR INTEGRAL SPG. .50; L/DRAFT GEAR, INTEGRAL SPG. .35

RP-25 TRUCKS — BETTENDORF: ATHEARN.. .95; C.VALLEY..1.25; CLIFF LINE .95; LINDBERG.. .69 — ARCH BAR: C.VALLEY. 1.25; M.D.C. .. .75; M.E.W. .. 1.25; KADEE.... .75

PASSENGER — 4 WHEEL: C.VALLEY. 2.45; WALTHERS. 1.25; CLIFF LINE 1.69 — 6 WHEEL: C.VALLEY. 2.95; M.D.C. .. 1.10

SIGNAL BRIDGE — SILVINE "HO" SIGNAL BRIDGE S-61 — ALL METAL WITH OPERATING LIGHTS. 2 SETS OF RED AND GREEN TARGET SIGNALS. 12 VOLT REPLACEABLE BULBS. DETAILED GIRDER CONSTRUCTION. REG. $5.98 — READY-TO-USE 3.79

SUYDAM HO BUILDINGS & KITS

#522 NEW DIESEL HOUSE.....4.95
#87 MAIL POUCH TOBACCO BARN.....1.95
#1 FURNITURE FACTORY.....4.25
#7 WAREHOUSE.....4.25
#12 MIDWESTERN TYPE GRAIN ELEVATOR.....4.25
#16 INDUSTRIAL OFFICES.....1.95
#352 MINE HEAD FRAME.....3.95
#353 L.C.L. FREIGHT STA...2.95
#354 TIMBER OIL DERRICK...5.95
#751 TIMBER TRESTLE.....3.75
#754 DECK TIMBER BRIDGE...3.30
#762 THRU TIMBER BRIDGE...3.30
#796 1000 PROFILE TIES....1.95
#797 250 PROFILE TIES.....1.95
#798 500 PROFILE BR.TIES. 1.95
#799 100 PROFILE NARROW GAUGE TIES..... 1.95
#351 TIMBER TUNNEL PORTAL.1.75
#250 WOODEN BARRELS 12 FOR .49
#251 OIL DRUMS 12 FOR
#201 EARLY DAY FLAT CAR...3.40
#202 EARLY DAY GONDOLA....3.50
#785 FREIGHT PLATFORMS....1.25
#786 PASSENGER PLATFORMS...95
#781 CATTLE LOADING PENS...1.35
#763 SINGLE TRACK TRUSS BRIDGE.....3.60
#764 DOUBLE TRACK TRUSS BRIDGE.....5.65
#765 DECK PLATE GIRDER BRIDGE.....2.95
#766 THRU PLATE GIRDER BRIDGE 3.30
#301 OPEN DECK PILE TRESTLE 1.75
#11 SAWMILL W/INTERIOR AND EXTERRIOR DETAILS.... $5.25
#15 BARTON FLATS LUMBER CO. 5.75
#14 (BLDG.ONLY).....4.25
#19 PACIFIC FOUNDRY.....2.95
#18 MINING CO. MILL.....2.50
#456 COMPLETE MINING INDUSTRY PACKAGE.....16.50
#24 WYOMING COAL MINE.....5.95
#8 3 STALL ROUNDHOUSE....9.75
#8X EXTRA STALLS (EACH)....1.25
#9 2 STALL ENGINEHOUSE....4.25
#80 YARD CONTROL TOWER....4.50
#73 MAIN STREET STATION...4.25
#71 YOUR HOBBY SHOP.....2.75
#72 FOLLIES THEATER W/LIGHTING 4.95
#75 TRIANGLE CAFE W/INTERIOR 4.25
#81 GRAND JUNCTION BOX WORKS 3.25
#82 PURINA CHOWS FEED MILL3.95
#83 SUNKIST EXCHANGE.....3.25
#85 SWIFT MEAT PACKING PLANT 3.95
#541 MODERN FACTORY.....2.25
#542 RAIL-TRUCK TERMINAL.2.25
#543 MODERN INDUSTRY.....2.25
#566 UNION ICE CO.....4.25
#571 OLD TOWN.....5.25
#572 OLD TOWN LODGINGS. .4.25
#504 STANDARD STATION.....2.95
#502 PASSENGER DEPOT.....4.25
#511 FREIGHT HOUSE.....2.95
#536 WATER TANK.....2.25
#500 SPECIAL PACKAGE OF OLD TIME STATIONS.....
#514 BOX CAR FREIGHT HOUSE1.95
#573 OLD TOWN BUSINESS BLOCK 4.95
#574 OLD TOWN HOMES.....3.95
#86 WELLS FARGO EXP. STA. 2.25
#23 AMER. CHEM. & POTASH CO. ANNEX.....5.75
#62 2 WAYSIDE SHELTERS.....95
#63 WAYSIDE SHELTERS.....95
#64 PASS. STA. COMPO.ROOF 2.95
#65 PASS.STA.SHEDCORRUG.. 2.95
#20 3 TRACK CAR BARN.....4.25
#21 2 TRACK CAR BARN 3.95
#210 4 TRACK CAR BARN.....5.50
#61 INTERLOCKING TOWER & SHED.....2.50
#4 BUCKHORN MINING CO'S ORE PROCESSING PLANT.....5.75
#5 BLACK BART MINE.....2.25
#6 RED LAKE MINE.....2.75
#17 MINING HOIST HOUSE 2.25

SEE OUR ORDER BLANK ON NEXT PAGE

EVERY DAY IS SAVINGS DAY AT AMERICA'S HOBBY CENTER — Order-By-Mail From AMERICA'S HOBBY CENTER, 146 C West 22nd St., New York, N.Y., 10011

DISPATCHERS REPORT

Last Run

MAX GRAY, 54, of Max Gray Models, P.O. Box 757, Santa Clara, California, passed away suddenly in Los Angeles, May 27th. Raised in Cleveland, Max was a veteran of the model railroad industry, operating Champion Decal Company and Max Gray HO and O scale locomotive imports. Two years ago the Champion Decal Company was sold to Richard Meyer, of Minot, N.D. A resident of California for some years, Max helped raise the quality level of O gauge scale locomotives to a new high with his line of imports. In recent years, he also imported a companion HO locomotive line. Max is survived by his wife, Reiko.

Electric Railways

MONTREAL'S RUBBER tired subway system will go into operation next year with 15½ miles of reinforced concrete track. But don't despair. For switching, braking and rare flat tire situations, there are inner steel flanged wheels which run on a unique invention called a "steel rail"!

After heartbreaking delays, *Silver Leaf Models* has received its shipment of Brooklyn Standard subway cars in HO from Japan.

Paul Moore, Box 187, Adrain, Michigan, offers a wide variety of HO intururban, coach, and assorted trolley body kits in HO at modest prices. Kits include wood floor and roof, six ply hand cut railroad board sides nice and sharp, plus cast detail and other parts. Not to be overlooked is a series of four different gas electric car bodies and a 1915 railroad roof commuter coach adaptable to wood or steel styling. Especially recommended for low budget modelers wanting something special. The illustrated list is yours for 10c.

N/000 gauge modelers looking for more buildings, check the Busch line imported by *Palmer Distributing,* P. O. Box 143, Bronzville, N. Y. They have everything from railroad stations to factories and landscapes. Palmer is also an excellent source for HO accessories such as smoke generators, rail rougheners, AHM articulateds with smoke, and others. Illustrated catalog sheets available for either 00-N or HO. No. 10 SAE please.

King Gauge

The sudden passing of Max Gray on May 27, 1965, shocked the entire scale O gauge fraternity. Operations are continuing. Max had been negotiating with a midwestern group regarding possible sale of the busi-

MODEL RAILROAD CLEARANCE — DRASTIC REDUCTIONS

Order-By-Mail From AMERICA'S HOBBY CENTER, 146 West 22nd St., DEPT. C, N.Y., N.Y., 10011

LOCOMOTIVES SPECIAL!
TYCO 0-4-0 SHIFTER Loco & Tender with SMOKE SP or B&O R-T-R 10.88
VARNEY OLD LADY WITH TENDER AND WORKING LIGHTS RTR 17.50 KIT 13.88
GP-20 DIESEL TYCO READY TO RUN 9.88 AT&SF, NYC, C&O, UP, RR
Ready-To-Run O-4-0 VARNEY DOCKSIDE SWITCHER 5 POLE PER-MAG MOTOR, WKG. LITES 5.95
Athearn SUPER POWERED * GP-30 DIESEL F7 DIESEL LOCOS 8.95 12.95 FEATURES GENERAL ELECTRIC LODEX RING MAGNET AND OIL IMPREGNATED BEARINGS.....
TYCO PACIFIC LOCO & TENDER GEAR DRIVE READY-TO-RUN 16.95 KIT $10.50
SALE VARNEY CASEY JONES WITH PLASTIC TENDER WORKING HEADLIGHT RTR 14.95 KIT 11.88
4-4-0 GENERAL TYCO RTR with Smoke 18.95 KIT Less Smoke 9.75

Athearn 40 FOOT SPECIAL BOX CAR 2.19 EA.
1236 TOLEDO, PEORIA & WESTERN
1237 WESTERN PACIFIC
1238 FRISCO
1239 NEW HAVEN
1240 NAT'L CYL. GAS
1241 LINDE AIR PROD.
1242 DEL. & HUDSON
1243 ERIE & LACK
50 FOOT AUTO BOX
1319 UP AUTOMATED RAILWAY
1320 FRISCO
1321 L&N THE DIXIELAND
40 FT. REEFER 1613 40 FT. DUBUQUE PACKING 2.39 EA.

LIMITED QUANTITY MONTHLY SPECIALS
SOLD ON A "FIRST COME" BASIS. ALL ITEMS ARE BRAND NEW & FULLY GUARANTEED
CLIFF LINE DUMP RAMP KIT 1.39
"HO" METAL ROAD SIGNS PAINTED (8) SET 39¢
VARNEY AEROTRAIN LOCO DUMMY & 2 R-T-R CARS 3.95
COALING TOWER (N&W) KIT #601 MFG. by I.M.W. 1.49
AMBROID STOCK CAR KIT #11 3.95
12 ASST. FARM ANIMALS by AUTHENTICAST 89¢
12 ASSORTED HO PLASTIC AUTOS 79¢
READY TO OPERATE RADAR TOWER BY IDEAL... 1.49
I.M.W. KIT #602 OIL STORAGE TANK (HORIZ.) 1.49
TYCO 4-WHEEL TALGO PASS. TRUCKS LOOP COUPLERS 98¢
PR. FLEISCHMANN TALGO FRT. TRUCKS NMRA COUPLERS 69¢
I.M.W. RELAY BOX 39¢ EA.
CLIFF LINE KING POST TRUSS BRIDGE 89¢
HO PASSENGER TRAIN FIGURES METAL (8) 49¢
ASSEMBLED "HO" ROAD SCRAPPER PAINTED METAL 69¢
FLEISCHMANN CURVED HO TRACK SNAP-TYPE 12¢ EA.

VARNEY STREAMLINE PASSENGER CARS
FAMOUS PENN LINE KITS, NOW MADE by VARNEY. FEATURES: ALL METAL TRUCKS, INTERIOR LIGHTING. Choice: NH, ATSF, PRR, SP
Kits
LIGHTED DOME 4.95
LIGHTED COACH 3.95
LIGHTED BAGGAGE 3.95
LIGHTED OBSERVATION 4.49

BLACKSMITH CAR "Tru-Scale" 1.98 KIT
AUTHENTIC OLD STYLE W/BLACKSMITH AT FORGE HAS ANVIL, SMOKE STACK READY-TO-RUN 2.49
ROTARY SNOW PLOW KIT 2.95 Athearn READY TO RUN 3.95

ARNOLD rapido COMPLETE 5 CAR SET
1 BALDWIN DIESEL LOCO (N.H.) $12.98
2 BOX CARS $1.98 3.96
1 GONDOLA WITH COAL 1.98
1 SHELL TANK CAR 2.75
1 CABOOSE 1.98
6 SECTIONS STRAIGHT TRACK -30¢ 1.80
4 SECTIONS CURVED TRACK -35¢ 1.40
1 TERMINAL CLIP WITH CABLE .98
1 BATTERY CONTROL BOX 1.98
TOTAL VALUE $29.81
SALE 9.99 READY-TO-RUN
Pee Wee 1/2 HO SCALE
USES 4 BATTERIES OR HO POWER PACK

BOOKS for model rails
ATLAS
LAYOUT BOOK 1.00
WIRING YOUR LAYOUT 1.00
6 HO RAILROADS 1.00
SNAP TRACK LAYOUT .25
KALMBACH
HO PRIMER 2.00
HOW TO WIRE YOUR R.R. 2.00
SCENERY FOR MODEL R.R. 2.00
SMALL R.R. YOU CAN BUILD 1.00
101 TRACK PLANS 2.00
PRATICAL GUIDE TO MODEL RR 2.00
MODEL CARS & LOCOS 1.00
MODEL RAILROAD STRUCTURES 1.00
HO RAILROAD THAT GROWS 1.00
TRACK PLANS/SECT'NL TRACK 1.00
TRACK PLANNING FOR REALISM 2.50
RAIL CRAFT
TRACK DESIGN 2.00
HO CUTOUT CITY 1.29
ROLLING STOCK PLAN BOOK 2.00

CRANE CARS Athearn 200 Ton (Kit) UP or PRR 2.99
Ready to Run, UP or PRR 4.95
Silver Streak 25 Ton (Kit) 3.95
Ready to Run 4.95
Tru Scale SALE DINER #657 69¢
STEPHENSON'S REALLY ROCKET TRAIN PUFFS SMOKE Triang 8 INCHES LONG READY-TO-RUN 12.95
by REVELL SALE PRICED BRIDGE & TRESTLE SET 98¢
ULRICH TRACK CLEANING CAR Kit REALLY WORKS WHILE CAR IS IN OPERATION 3.45
SCINTILLA SALE POWERHOUSE 1 AMP "POWERHOUSE" 4.95
by REVELL T-9015 BARNYARD SET 99¢ SALE PRICED
Revell SUPERIOR BAKERY T-9037 SALE PRICED 1.49
JOB PRINTING WEEKLY HERALD T-9038 SALE PRICED 1.49 by REVELL
COAL LOADER Revell SALE PRICED DUMPS SAND AUTOMATICALLY, WITH PLATFORM. 3.99 KIT
GIRDER BRIDGE Assembled complete with built-in Snap Track SALE 98¢

NEW 1965 CATALOG America's Hobby Center NEW 128 PAGE CATALOG ILLUSTRATES AND DESCRIBES OVER 40,000 ITEMS... LOCOS, CARS, ETC. ONLY 25¢

AHC BARGAIN BULLETINS
COMPLETELY NEW! PICTURES & DESCRIBES HUNDREDS OF EXCLUSIVE AHC BARGAINS.. PUTS YOU ON OUR MAILING LIST TOO!!
FREE
MODEL RAILROAD BULLETIN #RB
MODEL CAR AND SLOT RACING # SR
AIRPLANE PLASTIC AND R/C #AV
GENERAL HOBBYCRAFT #Y
JUST SEND A 5¢ UNUSED STAMP FOR EA. ONE YOU WANT.

WE ALSO SELL TO DEALERS
BENEFIT FROM OUR HUGE INVENTORY-IN-DEPTH.. DO MORE PROFITABLE BUSINESS BY USING OUR 9 POINT SERVICE PROGRAM....WE DELIVER ANYWHERE IN THE WORLD....SEND US 50¢ FOR OUR COMPLETE SET OF DEALERS 128 PAGE CATALOGS. .....YOUR PROFITS ARE OUR BUSINESS.....
MOD-AD AGENCY, INC. 146 W. 22nd St. New York, N. Y. 10011

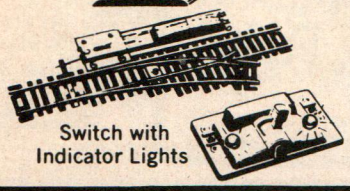
MAIL THIS ORDER BLANK NOW
AMERICA'S HOBBY CENTER 146C West 22nd St. New York, N.Y. 10011
PLEASE PRINT NAME & ADDRESS PLAINLY
RUSH ORDER TO
NAME
ADDRESS
CITY STATE & ZIP #

HOW TO ORDER
WE PAY POSTAGE ON ALL U S A ORDERS OVER $3.00 If order is under $3.00 enclose 25¢ for postage & packing. Send payment in full. No C.O.D.s. We accept cash, check, money order, stamps or foreign exchange. Outside U.S.A. add 10% of total order PLUS 50c special wrapping

QUANT	PRICE EACH	NAME & DESCRIPTION OF ITEMS	MODEL # IF KNOWN	TOTAL
	25¢	128 PAGE HO MODEL RAILROAD CATALOG, FULLY ILLUSTRATED, OVER 40,000 ITEMS		
	25¢	64 PAGE MINI-HANDBOOKS (LIST NUMBERS)		
	25¢	IF ORDER IS UNDER $3.00 ENCLOSE 25¢ FOR POSTAGE & PACKING	C-765 TOTAL	

O GAUGE LOCOMOTIVES
STEAM, DIESEL, ELECTRIC, SWITCHES
AND SPECIAL TRACKWORK
ALSO 3/4" LIVE STEAM
Send 25¢ for Catalog
BALDWIN MODEL LOCOMOTIVE WORKS
P. O. Box 161 STRATFORD, CONN.

TROSTLINES
When the world looks dark and dreary, and you're feelin' kinda low . . . Want to boost your spirits quick? A Hobby Shop's the place to go!
Wholesale Only *Since 1928*
Trost Modelcraft & Hobbies, Chicago 32

THE FINEST IN HO TRACKAGE
TRU TRACK

Switch with Indicator Lights
K&B MFG. CORP.
12152 WOODRUFF AVENUE
DOWNEY, CALIFORNIA
A SUBSIDIARY OF AURORA PLASTICS CORP.

ness and we understand that this group is now continuing negotiations with the Gray estate.

Elsewhere, the prospects for continued slow but steady growth of scale O gauge looks good. *All-Nation* has expanded its facilities. Reports from various suppliers around the country indicates that some new items are also in the offing from new suppliers.

New Catalogs

Harbern Model Supplies, 661 Simpson Ave., Winnepeg 15, Man. 32 page illustrated catalog, HO-O, 5½x8, Canadian prices. Canadian road specialists.

A. B. Boyd Co., 1030 South Grand Ave., Los Angeles 15, Calif. 40 page illus. catalog: Preisser HO figures, Boyd, Merit, Heinzl, Vollmer, Pocher cannons, Wilesco steam engines, etc. The variety of HO figures and accessories is especially outstanding and noteworthy, as are the Vollmer buildings. Price, 50c.

Wm. K. Walthers, Inc., HO 1965 Summer Catalog, 1245 N. Water St., Milwaukee, Wis. 53202. 100 pages, 8½x11. Walthers and other lines. Reference sections. Marnold packs. Many other HO lines, parts, etc. Price, $1.00.

Supply Car

Chester Holley, 3812 S. Himes Ave., Tampa, Florida, offers a 3x5 ft. railroad rug in ten colors, depicting the famous General 4-4-O locomotives. The pile of the rug is about half an inch thick and there is a rubberized back to prevent skids. These are handmade and great for the train room, bed room, etc. Shipped anywhere in the U. S. A. by Ol' Chester for $29.95.

Hockomock Railroad Club has a very few all wood cabooses in HO, dismantled they calls 'em, (kits, we calls 'em) with Hockomock Club decals at $4.00, and no truck or couplers. These are outside braced and available to local modelers at $4.00 each while they last. Contact *Hank Lindstrom,* 50 Elm St., North Easton, Mass., for further info.

Prototype

Burlington's 2-8-2 No. 4960 was used in the Savannah, Illinois area during the recent floods to haul various trains including the Empire Builder and North Coast Limited. High waters present no problems to steamers but could knock out the low mounted traction motors in diesels. . . . The same steamer, CB&Q No. 4960 will haul the Circus Parade Limited July 1, 1965, from Baraboo to Milwaukee, a 156 mile run, in conjunction with "A Day In Old Milwaukee" In on the fun is Paul Larson, now Director of Communications with *Schlitz Brewing Company.* Wonder if anybody will blank out any obvious Miller Highlife cars that get in the way!

And speaking of beer, the prototype of *Model Die Casting Company's* Miller Highlife Beer car in HO, white with red lettering is a common sight in these eastern parts because Miller still brews its beer in Milwaukee and uses a fleet of these modern cars to ship beer to all points. Other famous breweries no longer require fleets of beer cars as of old because of newly built or acquired plants in the New York-Newark, N. J. area. One still sees occasional Anheuser-Busch tank cars rolling by, however. Do any breweries have special beer cars besides Miller today?

New York World's Fair

Many items of railroad interest are to be found at the *New York World Fair,* despite the absence of any great railroad building. We'd recommend the model railroad show at the *Better Living Center* (Half price tickets will be found in RMC for the duration of the Fair) which was featured in the June 1965 RMC. Also take in the *Long Island Rail Road* exhibit and see the big GP-35 at the GM building. Other exhibits are scattered about, notably in the foreign pavilions. AMF operates a monorail in the amusement area and you can ride either the New York City subway or the Long Island Rail Road out to the Fair itself.

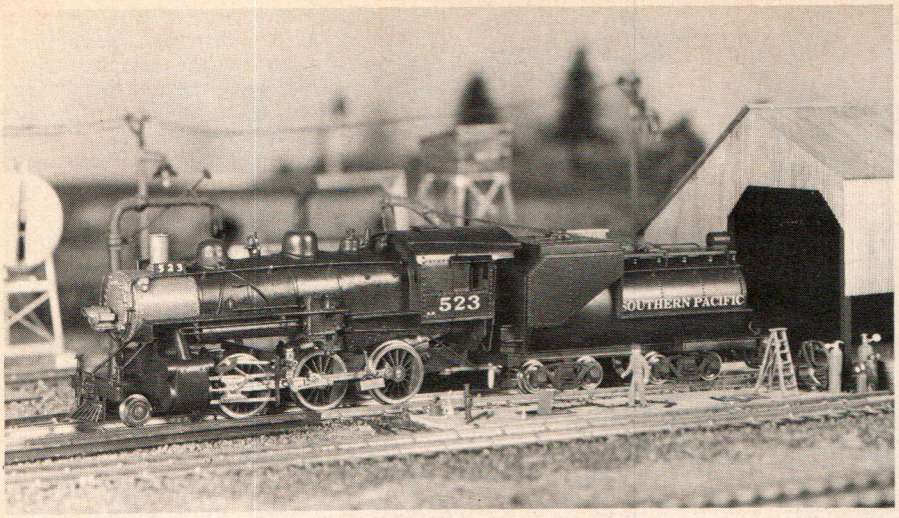
Museum Pikes

The *Marney Railway* is the only operating 2 ft. steam railroad in Pennsylvania, operating Sundays at least through the summer. Find it on River Road, Plains Township just below the Wyoming Bridge, midway between Pittston and Wilkes-Barre.

Million Miles Film

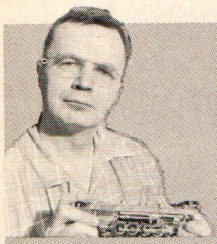
The *Hobby Industry Association's* Board of Directors at the spring meeting in San Juan approved a budget request permitting revitalizing of the HIAA film, "A Million Miles of Model Railroads", making it available to clubs and TV stations during 1965-66.

Things are changing at ATHEARN
The "old man" and his co-workers are going all-out on a whole new program of model railroad equipment. Quality control, new engines, new cars — all are a part of the new ATHEARN approach. We want to be proud of what we produce.
TRAINS Athearn IN MINIATURE
Tru Athearn
11929 S. Western Ave., Los Angeles, Calif. 90047



NEATLY MANICURED MOGUL was spray painted by Carl Caiati. Looks like old 523 has just been through shops for major overhaul with shop men completing the final details

CHAMP DECALS
8½x11 HO-O Gauge Catalog #65, 50c p.p.
CHAMPION DECAL CO.
Box 1178—Minot, North Dakota 58702



TROUBLE SHOOTING

Conducted by Bill Schopp & RMC Staff

Questions for Trouble Shooting are welcome on any model railroad subject. Questions should be brief and to the point. We cannot undertake individual layout design work, nor can we recommend brands of merchandise. We will print those questions deemed of greatest interest to our readers. We will attempt to answer questions by mail when return post cards are included but cannot guarantee to answer all questions: Trouble Shooting, c/o RAILROAD MODEL CRAFTSMAN, 6 East Main St., Ramsey, N. J.

Removing Paint

B. Samojedny: Is there a paint remover which will remove all of the paint from my die cast loco boilers quickly and efficiently.

ANSWER: I favor a wash-off type of paint remover sold at paint and hardware stores under various tradenames. This is about the consistency of pea-soup and the color of dirty cream. You brush it on the parts to be cleaned, let it work a minute or so, then wash it off under running cold water, with a little help from an old tooth brush. It does not seem to irritate the hands beyond a slight stinging when being washed. Quite often a second treatment may be needed at certain spots, particularly corners. The sediment from washing off does not seem to stain or clog sinks.

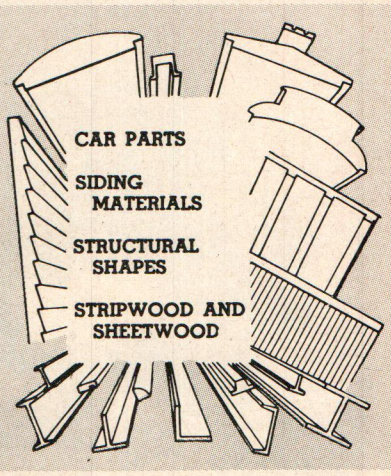
Biggest thing in favor of using this fairly expensive paint remover is that once the boiler has dried, you can proceed to paint right on the existing surface without neutralizing residua remover. Of course the superstructure should be removed, and the motor and insulated wheels not subjected to this treatment. Hence drivers, rods, valve-gear, and motor should be removed first.

Side-rod/Driver Trouble

R. Frost: Even though all drivers of my Pacific turn freely in my hand, they do not when placed on the track and the center drivers will not turn at all. Are side rods supposed to keep in a straight line when drivers turn?

ANSWER: In answer to your second question, yes. You may have a loose wheel on the center axle which permits the rods to get into a shallow

GOING TO BUILD?
Northeastern has just installed 8 brand new West German precision wood cutting machines, giving us the finest model wood ever. NEW—HO 1" scale thick fascia strips.
TT — HO — S — O



SEND 25¢ NOW for new catalog listing many new items plus your packet of more than 30 samples of our famous wood parts. (Be sure to state your gauge)
NORTHEASTERN
SCALE MODELS, INC.
BOX 1A BALLARD VALE, MASS.

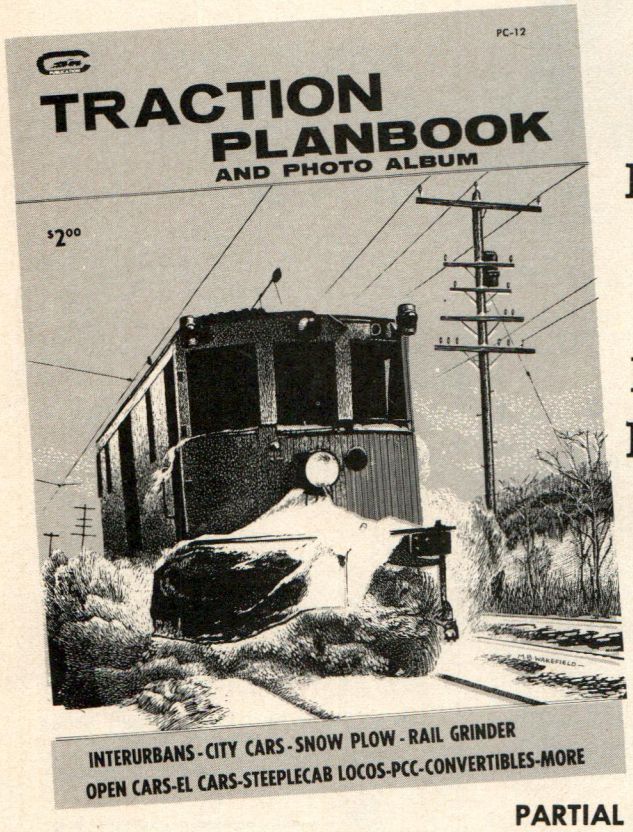
HOBBIES • MODELS NRP IMPORTERS
OUR NEW 52-PAGE CATALOG
Contains hundreds of illustrations and oodles of attractive new items, among them:
- MINITRIX Electric OOO/N Gauge Model Trains
- VIKING HO gauge Model Vehicles
- KIBRI HO Building & Bridge Kits
- VAU-PE Kits, Trees, Landscapes
- PERM miniature Motors and Transmissions
- MODEL SHIPS, 1:1250 scale, 700 models
- Naval Identification Books
- WILESCO Steam Engines & Tools

SEND 35c FOR YOUR COPY TODAY

TT ROKAL
ROKAL TT GAUGE MODEL TRAINS
65-PAGE CATALOG 60c
TECHNICAL MANUAL 75c
TRACK LAYOUTS MANUAL 75c
NATHAN R. PRESTON & CO.
P.O. Box 187, Dept. J Des Plaines, Illinois 60017

TRACTION PLANBOOK
AND PHOTO ALBUM

CARSTENS PUBLICATIONS



LOADED WITH DETAILED TROLLEY CAR DRAWINGS FROM THE UNITED STATES AND CANADA.

LOADED WITH PHOTOS

THE TRACTION PLANBOOK AND PHOTO ALBUM compiles the best plans which have appeared through the years in RAILROAD MODEL CRAFTSMAN plus additional fine plans made available by Richard M. Wagner, of Wagner Car Company, to create a balanced coverage of electric railway equipment from early horse car days through the PCC era. These plans have been supplemented with photos from leading trolley picture collections to bring the model railroader and prototype enthusiast one of the most valuable reference works of its type ever offered the tractioneer.

TRACTION PLANBOOK (PC-12), 8x11, 68 pages. Published by Model Craftsman Publishing Corp., 1964.

ON SALE AT HOBBY SHOPS

PARTIAL LIST OF CONTENTS

Open End Elevated Coach
Connecticut Co. Sheer Plow 0130
North Shore "Electroliner"
N. St. C. & Toronto 620 Series
Johnstown Traction PCC Car
Lake Shore Electric Niles 150 Series
Sacramento City Lines No. 56
Queensborough Bridge Ry Master-Unit
Virginia Elec. & Power Brill 1929
Interstate Street Ry. 111 Series
San Antonio Public Service 510 Series
Third Avenue Ry. 1243
Third Avenue Railway 1702
San Diego Elec. Ry. 400 Series
Boston Elevated Ry. Type 1
Boston Elevated Ry. Type 4
Third Avenue Ry. 1-200 Convertible
Standard 14 Bench Open Car
Single Truck Birney Safety Car
10 Bench Single Truck Open
Public Service 2300 Deck Roof Car
THI&E Steeplecab
Potomac Edison Motor No. 5
And many, many more

MODEL CRAFTSMAN PUBLISHING CORP. **4025**
6 East Main Street
Ramsey, New Jersey 07446

Please rush me ..... copies of the new TRACTION PLANBOOK

I enclose $2.00 for each book ordered, total remittance $.....

NAME .....

STREET .....

CITY ..... STATE/PROV. ..... ZIP.....

(Please print or type. If you do not wish to mutilate magazine, enclose remittance with letter.)

V and lock the wheels. But the mere meshing of a worm and gear prior to putting an engine on the track, will in effect lock the geared drivers until power is applied; still, there should be a teeny-weeny little bit of play owing to slack in the gearing.

Sno-Melter

W. Harman: In a 1953 "Believe it or Not" cartoon I saw a Snow-Melter, a large fan to be mounted on a flat car to blow hot air on snow ahead of the car. Do you know if there was ever any use made of this scheme, or whether anyone ever built a model?

ANSWER: First I've heard of it, but currently the NYC has some snow-melters which consist of a surplus jet engine mounted on a flat car and angled downward so that the jet exhaust will melt snow ahead of the car. Have never heard of a model of this, and sure hope I never do — at least of a working model!

Double Heading Dangers?

D. Clussman: I have 15 HO locomotives and it seems that no two of them will run at the same speed. In my job in engine service on the Soo Line I am assigned to engines which can pull a great many cars: if not, another engine is added. To get beyond 8 or 10 HO cars in a train, I have to add an engine, too. Does it injure a slower and faster engine to be coupled together for double-heading?

ANSWER: When a DC motor is turned by another motor it acts as a generator, so at "worst" additional power would be fed back to the tracks. But this is highly unlikely with a worm drive since the wheels cannot turn the motor. What will happen is that the faster engine will be slowed down by the heavy train and may do more than its share of work. My suggestions would be to put the faster loco ahead so that the slack is kept out of the couplers (avoiding inadvertant uncoupling at a ramp or magnet), but you might experiment with the slow engine ahead just to see if that happens.

Electrical Switches

L. Bailin: I plan to wire my own layout and would like to inquire what types of toggle switches I need for the following: (a) control of switches or turnouts; (b) on-off: (c) reversing.

ANSWER: Your hobby dealer should be able to furnish you with electrical switches for each purpose and either explain how to use them, or show you the instruction sheet packed with them.

However, here goes: (a) switches need a Single Pole Double Throw (SPDT) with sprung return to center-off; (b) on-off could be Single Pole, Single Throw (SPST) with either sprung or positive action, depending on what you want to do—a pushbutton might also do; (c) reversing switches are Double Pole Double Throw (DPDT) with positive action and a center-off position.

(Continued on page 50)

Model Railroad Timetable

NATIONAL CONVENTIONS

VANCOUVER, B. C., Aug. 26-29. National Model Railroad Association, Inc. Hotel Vancouver. Shay fantrip, clinics by Jock Oliphant, Paul Mallery, Gus Swanberg, Gib Kennedy, Bill Hewlett, Jack Work, Cam Porteous, Frank McKinney, Jim Sabol, and others. Also railette activities, contests, layout visits, cocktail hour and banquet, and many other features. Special Dreamliner train trips to Vancouver from Montreal and Pittsburgh are planned. Also special low fare train trip. Advance registration before Aug. 1 saves $2. For complete information contact NMRA Convention Committee, 2247 Granville St., Vancouver 9, British Columbia. For membership information, write Bob Bast, Box 1328C, Station C, Canton, Ohio 44708.

LYON, FRANCE. Sept. 6 thru 11. XIIth International Congress of Model Railroad. Cocktail party, Work Session, Exhibition, Banquet, Fan Trips, Official Reception Lyons Town-Hall. Contact: Ch. Mercier, 2, rue Pierre Loti, Villeurbanne (Rhone) France.

NMRA REGIONAL MEETS

MIAMI, FLORIDA. Oct. 29, 30, 31. Sunshine Region Convention, Deauville Hotel, Collins Ave., Miami Beach. Auction, workshop, pike visits, railette activities, banquet, business meeting. Contact Ted M. Norcross, Jr., 1325 N. W. 127th St., North Miami, Fla. 33167.

NEENAH, WISCONSIN. Sept. 26. Winnebagoland Div., Midwest Region, NMRA Fall Meet. Host: Neenah-Menasha Model RR Club, 323 W. Forest Ave., Neenah. Slide-tape clinic, slide shows, tour Soo Line terminal facilities, home layouts, club layout op., live steam on display. Info. John Franzen, RR #1, Menasha, Wis.

CLUB NOTICES

ASTHABULA, OHIO. Ashtabula Model Railroad Club would like new members. Meetings Tues. & Thurs. eve. every week, 1334 Michigan Ave. In process of bldg. 500' HO layout. Contact Ray Sebell, 1833 W. 5th St. Phone: 964-9460.

SAN DIMAS, CALIF. West Covina Brotherhood of Model Railroaders have moved to 164 Bonita St., San Dimas. 3000 sq. ft. HO, HOn3, & traction. Meet Tues., 8 PM. Contact Jack Lewis, 824 S. Dancove Dr., West Covina, Calif. ED 9-6874.

BALTIMORE, MD. AREA. Exclusive O ga. electric traction Model RR Club. City, interurban & heavy elect. (pantograph op.) only. Ltd. charter membership open. W.B.&A. Tractioneers, Inc., 204 Indian Springs Dr., Silver Spring, Md. 20901.

EAST STROUDSBURG, PA. Delaware Water Gap Model Engineers (formerly Pocono Model RR Club) meet each Thurs., 7:30 PM 592 E. Broad St. Interested HO gaugers invited. Contact William J. Laise, P.O. Box 91, East Stroudsburg. Phone: 421-0973.

CLUB NOTICES

ALHAMBRA, CALIF. After 25 years, Pasadena Model RR Club has moved to new quarters—139 W. Main St., Alhambra, Calif. Phone: 284-2664. Info. Eugene O. Canfield, Secy.

WASHINGTON, D. C. AREA. The Falls Church Model RR Club seeking new members. "HO", HOn3 scales planned, possibly O & S as well. Plenty of equip., but looking for space. Info. Robert Keeler, 271 N. Washington St., Falls Church, Va., Phone JE 2-8750 from 5-10 PM.

EL PASO, TEXAS El Paso, Texas HO Club now forming. New members welcome. Info. Dick L. Arnold, 6114-B Ponder Dr., El Paso, Texas 79906. Phone days—568-6501, eve. 772-5739.

ELMHURST, L. I., N. Y. Manhattan Model RR Club meets every Wed. 8 PM at 42-25—80th St., Elmhurst. Turn-of-the-century. HO & HOn3, traction. Code 100 rail. Info. call Frank Lang at HA 6-1880.

ROCKY HILL, N. J. Pacific Southern Rwy. Co. of Rocky Hill welcomes new members. Meet every Wed. at home of Robert F. Latham, Washington Rd., Rocky Hill. Large HO scale operation. Each member must be 21 and belong to NMRA. Info. Paul T. Bortell, Jr., 41 Robert Rd., Princeton, N. J.

ST. PAUL, MINN. Twin City Model RR Club meet in large room off main concourse of St. Paul Union Depot. Mon work nights, Thurs. operating nights. "O" scale, 2-rail. Also trolley line overhead. Membership open. Contact Byron D. Olsen or Harold Carlson at Depot ticket counter.

LONDON, ENGLAND. Capital Model Railroaders meet every third Sat. above "Clerkenwell Tavern" Farrington Rd., London E.C. 1, 7:00 PM. U.S. prototype HO layout. Test Track in TT and N ga. Contact B. S. Victor, 3, Cobb Court, Burbage Rd., London, S.E. 24. Phone: BRI 6076.

FAN TRIPS

PORTLAND, MAINE. Sept. 12. Steam Train excursion sponsored by Portland Div. The Railroad Enthusiasts, Inc. Canadian National 4-8-4 6218 from Grand Trunk Station, Portland 8:00 AM EDT to Island Pond, Vt. via White Mts. Lunch & snacks available on train. Return to Portland 8:00 PM. Fare: Adults $12.00; Children 6-12 $6.00. Contact Mr. Jesse F. Libby, Jr., 344 Pine St. South Portland, Maine 04107.

TROLLEY MEET

DETROIT, MICH. Sept. 11, 12. Michigan Electric Rwy. Club (0) & Detroit United Rwy. Club (HO), Northland Center Auditorium, near intersection of John Lodge Expressway & West Eight Mile Rd. Motels near, hospitality corner for ladies. Admission—bring an operating car. Clinics, visits to home layouts. Contact Jack Ryan, 18988 Fielding, Detroit 48219. SAE.

CLUB SECRETARIES

Items for inclusion in the Model Railroad Timetable are welcome but please allow 6-8 weeks for publication. Give name of responsible club official. Advise if membership is prerequisite to admission.

MÄRKLIN

World's Largest Line Ready-built HO. Always a full line in stock.

Marklin catalog (w/50c refund coupon) —.50

You must see to appreciate. When in Philly be our guest.

NICHOLAS SMITH 60 N. 11 St. Phila. 7, Pa.

All orders shipped same day received.

Live Steam Locomotives

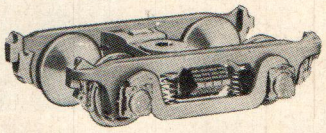
Just bolt 'em together

NEW 1965 CATALOG

You can have a backyard railroad completely steam powered—including all accessories. Complete kits, all machine work done, you just "Bolt 'em Together." Also available in rough form. Old time & modern engines & rolling stock, in ¼", ½", ¾", 1" and 1½, scales. See EVERYTHING FOR YOUR STEAM POWERED RR. in our 100-page catalog. Price $1.00

LITTLE ENGINES Box A. Lomita. Calif.

NEW! HO Micro-Motive RP-25 Low-Profile Freight & Passenger Car Trucks and Wheel Sets



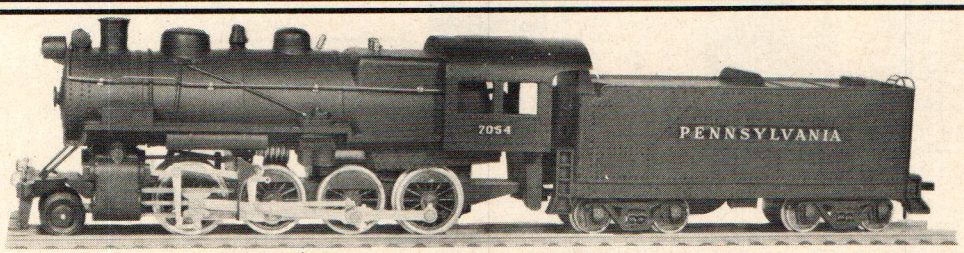
201	Roller Bearing 4-Whl. Passenger	Pr. 1.69
202	Exp. Reefer as above but 33" Whls.	Pr. 1.69
101	Bettendorf 50 Ton Frt.	Pr. .95
103	Archbar Freight	Pr. .95
106	Symington Hi-Speed Roller Brg. Frt.	Pr. .95
TM-105	Andrews Heavy Duty Frt.	Pr. .95
133	Replacement 33" Wheels, Set of 4	Pr. .49
126	Replacement 26" HOn3 Wheels, Set of 4	Pr. .69
136	Replacement 36" Pass. whls. Set of 4	Pr. .69

Our new RP-25 Low Contour trucks and wheel sets provide up to 50% increased power for locos and far less dirt build up on flanges. Less friction, bind, and dirt means better operation.

Replacement wheel sets use Torrington axles and will fit most popular trucks without alteration. **All New Cliff Line Trucks and Wheelsets now covered by NMRA Warrant No. 53! Upgrade all your HO equipment. Switch to Cliff Line.**

THE CLIFF LINE SCALE MODELS

Box 322, Station 1 North Hollywood, Calif. 91605



BOWSER REFERENCE MANUAL — Indispensible for dealers, repair men, builders, custom builders and owners of Bowser steam locos. $1.00

PENNSYLVANIA RR H-9, 2-8-0

BOWSER REFERENCE MANUAL continues to be a "best seller." Over 3000 copies sold to date. Be sure to get yours. ORDER NOW!

Kit, complete with tender	$32.50
Loco Kit only	27.95
Tender Kit only	6.95
Mechanism for scratch builders	20.50

Includes side rods, main rods, crossheads, valve gear, frame, cylinders, drivers, motor w/worm, trailing and lead trucks.
See your dealer first for American made Bowser Locomotives. Pennsylvania residents must include 5% sales tax.

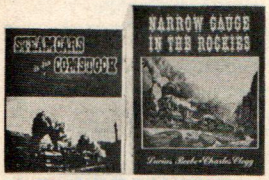
RAILROADERS: please note our new address: 21 Howard Street, Montoursville, Pa. 17754. Located on the east side of the Montour Shopping Plaza on Route 220. Look for the ENGLISH'S MODEL RAILROAD SUPPLY sign.

DEALERS ORDER DIRECT

Bowser MFG. CO., P. O. BOX 122, MONTOURSVILLE, PA. 17754

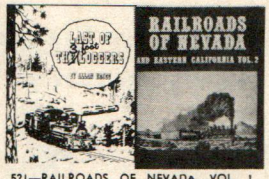
GREAT BOOKS for model rails

A TRAINLOAD OF GREAT



505—STEAMCARS TO THE COMSTOCK, by Beebe & Clegg. The Virginia & Truckee and the Carson & Colorado in picture and prose. A collection of rare old pictures and three oil paintings by Howard Fogg. 8x11, 100 pages, maps, over 120 illustrations. **$4.50**

502—NARROW GAUGE IN THE ROCKIES, by Lucius Beebe and Charles Clegg. A large volume on slim pikes of Colorado, Utah, and New Mexico: D&RG. Mears short lines, DSP&P, F&CC, Uintah, and RGS. 224 pages, 250 illustrations, 8x11. Second printing. **$8.50**



521—RAILROADS OF NEVADA, VOL. 1, Myrick. 50 railroads are covered in this first of 2 volumes of Nevada RRs. Beautifully printed, Special maps **$12.50**

527—RAILROAD OF NEVADA, VOL. 2, Myrick. Covering the Southern Roads in a deluxe presentation. Profusely illustrated **$12.95**

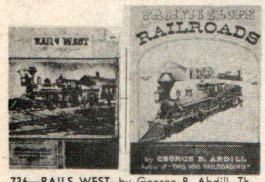
501—O&W, by William F. Helmer. The birth, the life, and the death of the railfan's railroad. 228 pages 6x9 with 150 photos, maps, timetables, and a complete motive power roster. Camelbacks, diesels, trestles; all beautifully depicted. "A must in every railfan's library" says Hal Carstens of RMC. Dust jacket and frontispiece by Otto Kuhler. **$5.00**

THRILLING READING!

850—SPEED LIMIT 30, Downs. The story of the narrow gauge branch lines of the Australian Victorian Railways. 130 pgs., 5½ x 8½, hardboard **$6.00**

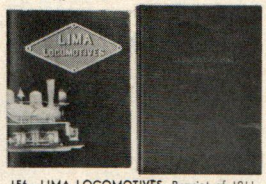
531—RAILWAYS OF AUSTRALIA, Singleton & Burke. Changes in Aussie RRs from steam to diesel. 176 illus., 3-color foldout map, 8½ x 9, 160 pgs., cloth bound **$5.00**

512 — BALDWIN LOCOMOTIVE WORKS, 1881 Catalog Reproduction. A rich looking volume handsomely bound in brown with gold leaf lettering. Covers many of the locos produced by Baldwin with photos and data. Letters and comments on early BLW locos. 8x11, 153 pgs. A collector's type book. **$10.00**



736—RAILS WEST, by George B. Abdill. Th final volume in the Abdill rail trilogy. Chapter-cover the Middle Border, Northern Plains South-Southwest, Rocky Mountains, and Pacific Coast. This book is loaded with page after page of rare steam loco photos, for those who love them **$12.50**

731 — PACIFIC SLOPES RAILROADS, by George B. Abdill. To the clank of link and pin, the pages carry the reader from Canada to Mexico alongside engineer Abdill in the old wooden cabs as little old trains buck and bowl over the plains, crawl up timbered slopes, and in and around treacherous mountain passes. Here are two dozen journeys into yesterday over the rails that built the West. 8½x11, 182 pages **$10.00**

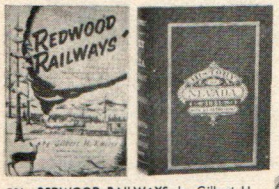


156—LIMA LOCOMOTIVES. Reprint of 1911 Builders catalog. Incomparable gathering of illustrations, data, descriptions of all types built by this mfr. including Shays. Colorful dust jacket. 48 pgs., 8½ x 11, paper bound. **$3.00**

524—ROGERS LOCOMOTIVE WORKS CATALOG reproduction including history, origin and growth of company from 1831 to 1886. Limited edition of 1250 copies. 200 pgs., 8 x 11, brown cloth **$10.00**

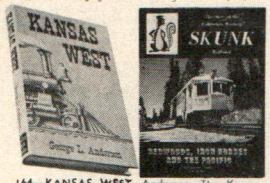
520—20TH CENTURY, Lucius Beebe. Since 1902 the 20th Century has been one of the worlds great trains. Beebbe has chronicled this luxury run from its beginnings with a mass of detail in text, pictures, clippings, and paintings. Gives the feel of real railroading at the height of the era of opulence. 180 pgs., 8½ x 11, hardbound **$5.95**

518—RIO GRANDE, Beebe & Clegg. The Mainline to the Rockies. The splendor of the Rockies combined with the tale of the Rio Grande. 380 pgs., over 540 illus., 4-color reproduction, maps, drawings. Cloth binding **$10.00**



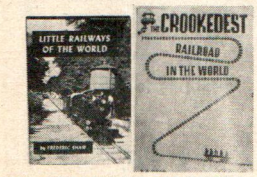
506—REDWOOD RAILWAYS, by Gilbert H. Kneiss. The story of the little roads which grew up into the Northwestern Pacific RR. 40 full pages of illustrations, 16 area maps, 2 pocket maps of entire system. Over 200 pages, 6x9. **$4.75**

510—HISTORY OF NEVADA, Thompson & West, 1881. A reprint of a classic in its field. 1000 pages, 7x10½, 280 illus., buckram. **$20.00**



164—KANSAS WEST, Anderson. The Kansas Pacific and the D&RG. Scholarly work with 90 illus., 2 Kuhler paintings, 264 pgs., 6 x 9 hard bound **$6.95**

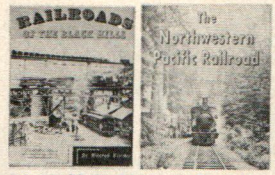
847—REDWOODS, IRON HORSES & THE PACIFIC, Crump. Story of the California Western and its Skunk rail cars. 150 illustrations, maps, drawings, photos, plus text. 160 pgs., hardbound **$8.50**



508—LITTLE RAILWAYS OF THE WORLD, Shaw. The story of the small gauge railroads; Romney, Talylln, and others. Unusual yet railroady. 270 pgs., 225 illus., 6½x9½, hard cover **$6.00**

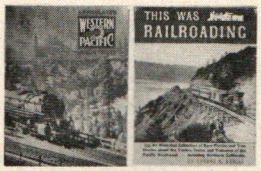
514—THE CROOKEDEST RAILROAD IN THE WORLD, Wurm and Graves. History of the Mt. Tamalpais & Muir Woods Ry. in photos and text: Shays, Heislers, plans. Hard cover **$3.75**

The supermarket of railroad literature!



740—RAILROADS OF THE BLACK HILLS, Fielder. 200 photos of the South Dakota railroads. Includes 18 pages of Jackson photos. Letterpress printed on coated stock. 8½ x 11, hardboard **$12.50**

173—NORTHWESTERN PACIFIC, Strindt & Dunscomb. Story of the NWP, wholly owned subsidiary of the SP. Loaded with ferry boats, nostalgia, smoke, creaking coaches. 272 pgs. 400 illus., 8½ x 11, hardboard **$12.50**



155—ARTICULATED LOCOS OF THE WESTERN PACIFIC, Noble. Unforgettable action and still photos of the WP's giant steamers. Rosters of all WP steam power. 24 pgs., 26 illus., 8½ x 11, paper **$1.50**

730—THIS WAS RAILROADING, Abdill. 350 photos of old locos and breathtaking scenery, wrecks, right-of-way, and equipment. Plus text. Pure railroading all the way thru. 8½ x 11, 192 pgs., hard cover **$12.50**

522—VIRGINIA & TRUCKEE, Beebe & Clegg, Fifth edition. A story of Virginia City and Comstock Times. Soft cover, 68 pgs., 6x9. **$1.00**

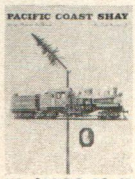
523—THE MA & PA, George Hilton. History of the Maryland & Pennsylvania from its start. Profusely illustrated. 183 pgs., 6 x 9, hard cover **$5.00**

848—SLIM RAILS THROUGH THE SAND Turner. 80 years of Carson & Colorado a SP narrow gauge. Many rare plans. 112 pgs. 8½ x 11, hard bound **$6.95**

532—THE RUTLAND ROAD, Shaughnessy. Jim Shaughnessy has come up with a superb volume on Vermont's big little railroad. Over 370 pages pack in 425 photos, 16 maps, timetables, charts, plus readable text. 9 x 11, hard bound **$10.00**

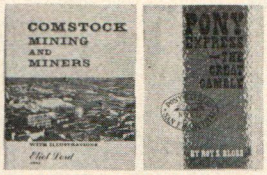
163—SANTA FE, Duke & Kistler. Over 300 illus., maps, paintings, photos and text of a great carrier. A must for all Santa Fe buffs. 184 pgs., 8½ x 11. Hard bound **$10.00**

822—STEAM LOCOS OF THE BURLINGTON ROUTE, Corbin & Kurke. A labor of love on one of our great railroads. Loaded with data and photos. 9 x 11½, 302 pgs., coated stock. **$15.00**



172—PACIFIC COAST SHAY, Dan Ranger. From the beginnings of the Shay to development of famed Pacific Coast type. Many illus., 8½ x 11, 112 pgs., hardbd. **$7.95**

517—MIXED TRAIN DAILY, Lucius Beebe Greatest book on mixed trains and short lines ever written. Full of photos and sparkling text. 370 pgs., 8 x 11 ..... **$9.50**

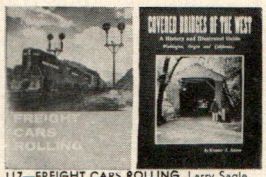


509—COMSTOCK MINING AND MINERS, by Eliot Lord. A reproduction of the famous 1883 edition with addition of 117 illustrations. An on-the-spot account of bonanza days in Virginia City, Nevada. Not a railroad book but essential to all railfans interested in Western Lore. 578 pages. **$8.50**

511—PONY EXPRESS—THE GREAT GAMBLE, by Roy Bloss. Before the railroad came the Pony Express. Of special interest to philatelists, historians, and railfans, and transportation enthusiasts. 200 pages text, 40 pages illustrations, 6x9. ..... **$4.50**

414—THE STORY OF AMERICAN RAILROADS, Holbrook. Good basic history of our railroad systems. New low cost edition. 8½ x 11, hardbound **$2.96**

733—REDWOOD CLASSIC, by Ralph Andrews. 100 years of California logging, railroads, San Francisco, and men. Rare logging railroad scenes. **$10.00**



117—FREIGHT CARS ROLLING, Larry Sagle. Story of freight cars told in 6 chapters: classification, types, markings, accounting. Large photos. Ideal for school or beginner use. Hard cover, 8½ x 11, 125 pages **$5.00**

528—COVERED BRIDGES OF THE WEST. 201 choice photos covering Oregon, Calif., Wash. 150 pgs., 8½ x 11, hard cover **$5.95**

851—RAILROADING IN THE NORTHWEST PINES, Gutohrlein. Story of the Rayonier Inc. railroad, photos and text. 5½ x 8, 36 pgs., paper **$1.00**

852—PENNSYLVANIA RR, THE EARLY DAYS, Brooks. Small volume on the Pennsy's beginnings. Many early dwgs. 5½ x 8, 52 pgs., paper **$1.25**

STEAM • DIESEL TROLLEY PICTURE CARDS

COLLECTORS. SCRATCHBUILDERS. DETAIL HOUNDS—Here are big 3¾ x 5½" printed picture cards of rare old steam locomotives, trolleys, interurbans, and diesels; all carefully printed on heavy Krome-Kote card with photo-like quality. Each packet contains 10 different cards. Order all 9 sets today.

No. 1 Old Time Locomotives
No. 3 Hey Day Locomotives
No. 4 Short Line Locomotives
No. 5 Modern Steam Engines
No. 6 Diesel Locomotives
No. 7 Interurban RR Cars
No. 8 Rare Old Time Trolleys
No. 9 Old Time Trolley Cars
No. 10 Modern Street Cars

only 50c per set
all 9 sets, $4.50 postpaid.

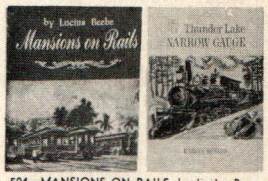
827—COLORADO MOUNTAIN RAILROAD, VOL. 1. Covers 37 roads from Argentine Central thru DNW&P. 110 pgs., 130 pix, etc. 6 x 9, paper **$3.00**

737—LOGGING RAILROADS OF THE WEST, Adams. Remarkable assemblage of logging road photos, text, along with a complete list of western logging rrs **$12.50**

118—RIGHTS OF TRAINS, Peter Josserand. Excellent guide to real rail train operation. A must for model railroad operators **$1.75**

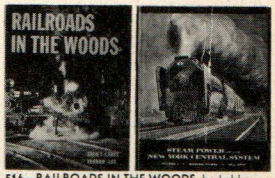
834—BUFFALO, LOCKPORT & ROCHESTER RY., Gordon. 8½ x 11, 84 pgs., 100 pix, maps, tts., etc. Paper-covered volume on electric ryr. out of Rochester 54 miles to Lockport.... **$2.50**

751—LOCOS OF THE PENNSYLVANIA RR, Warner. Largely reprinted material from rare old issues of the Baldwin Loco Works magazine. Covers up thru mid-1920 period. 80 pgs., 8½x11, paper, ... **$3.00**



504—MANSIONS ON RAILS, by Lucius Beebe. The story of private railroad cars and the moguls who rode them amid plush Victorian appointments. 380 pages; 350 rare pictures, 6 in full color. **$10.00**

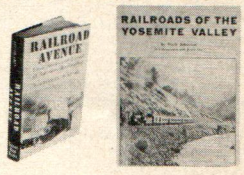
823—THUNDER LAKE NARROW GAUGE, by Huston. Wisconsin's last narrow gauge operation, the Robbins Railroad, in pictures and text, served Wisconsin from 1893 thru 1941 on 3 ft. gauge tracks. 6¼ x 9¼, 145 pgs. **$7.50**



516—RAILROADS IN THE WOODS, by Labbe and Goe. 269 pgs. and 440 illustrations depict the thrilling story of logging railroads. 8¾ x 11¼. Loaded with Shays, Heislers, equipment. Best logging book yet. **$10.00**

651—STEAM POWER OF THE NEW YORK CENTRAL, by Stoufer. Vol. 1. Covers the period 1915-1955 and is jammed with Hudsons, Mohawks, Niagaras, Pacifics, and smaller types. A 224 page picture book of photos, plans, calendars, and prints. A must for every NYC fan. 8½ x 11. ..... **$12.00**

739—EARLY AMERICAN STEAM LOCOMOTIVES, Reed Kinert. Steam power from 1830 to 1900. 96 illustrations, 16 in color. 160 pgs., 11 x 8½, coated paper, hardbd. **$15.00**



171—RAILROAD AVENUE, Freeman Hubbard. Varied collection of great railroad tales and legends, illus., 6 x 9, hardbound. New edition. **$5.95**

846—RAILROAD OF YOSEMITE VALLEY, Johnston. Covers Yosemite Valley RR, Yosemite Lumber Co., Yosemite Sugar Pine Lumber Co., and Yosemite Portland Cement Corp. 400 illus., 208 pgs., hardbound **$12.50**

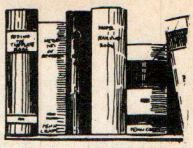
526—OVERLAND LIMITED, Beebe. Let his critics scoff, this is Beebe at his Victorian pompous best, covering one of America's great trains, as only a gourmet and artist can. Plenty of vintage equipment photos.

503—THE MAINE TWO FOOTERS, by Linwood Moody. First complete coverage of all the New England 2-Footers: Wiscasset, Waterville & Farmington; Monson; Edaville; Kennebec Central, Billerica & Bedford; Bridgeton & Saco River; Bridgeton & Harrison; Sandy River & Rangeley system; Wiscasset & Quebec; and others. 6x9, 328 pages, almost 200 illustrations, 60,000 word text, maps. **$6.00**

the lure, the fascination of railroading in these fine books for model rails.

For more advanced reading on specialized model railroad subjects, these books by experts in the field are a must. Start adding to your own railroad library today.

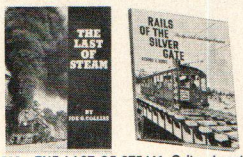
RAILROAD BOOKS FOR YOUR LIBRARY



420—RAILWAYS, RAILWAYS, RAILWAYS, by H. Loxton. Low cost reprint. **$2.98**

418—AMERICAN LOCOMOTIVES, Alexander. Reprint of long out of print volume. Hardboard, 8½ x 11 ..... **$2.98**

735—A TICKET TO THE CIRCUS, by Charles Fox. The flamboyant spectacle of the Ringling Brothers Circus, from the beginning in 1884 to today's mobile phenomenon. Rich and fascinating. **$10.00**



513—THE LAST OF STEAM, Colias. A portfolio of steam and steam in transition, east and west. The last ten years of steam in the U.S. Fine action photos in the grand tradition. 8½x11, 260 pgs., 275 photos, hard cover **$10.00**

153—RAILS OF THE SILVER GATE, Richard V. Dodge. The John D. Spreckels rail empire in California's Southwest. Described are the horsecars, ferry boats, cablecars, electric street cars, interurbans, and the San Diego & Arizona Railroad. 144 pgs., 190 illus., 8½ x 11, hard cover **$8.50**

413—HIGH IRON, Lucius Beebe. Text and pix of large and short lines. Long out of print; now in new low price edition. 8¼ x 11, 224 pgs., hard cover **$2.98**

410—HIGHLINERS, Lucius Beebe. A railroad album of great train photos. Out of print for years. New low price edition. 8¼ x 11, over 200 pages **$2.98**

415—HIGHBALL, Beebe. A pageant of trains. 8¼ x 11, 200 pgs., hardbd. Reprint..... **$2.98**

417—TRAINS IN TRANSITION, Beebe. Early days of the diesel when steam was king. Reprint **$2.98**

Employee Timetable No. 44
June 26th, 1898

Authentic 16 page reproduction of rare 1898 NYO&W employee timetable No. 44, effective June 26th, 1898. Measures over 8 x 14". Lists Chicago Express, mile and freight trains. Ideal for framing. A must for collectors, railfans, modelers and historians.

$2.00 ppd.

653—B&O POWER, Sagle & Staufer. Superb history of B&O motive power. 750 photos, all-time roster, art. 352 8½ x 11 pages, hardbd. **$15.00**

170—RAILS ACROSS THE MIDLANDS, Cook. Pictorial ring in the grand manner, during the post WW2 period when steam still ruled. 8½ x 11, hard cover **$8.95**

151—SOUTHERN PACIFIC STEAM LOCOMOTIVES, Donald Duke. Pictorial anthology of Western Railroading. Espee steam power from woodburners to giant Cab-in-Front Articulateds and colorful Daylight engines. 2nd revised edition, many new photos. 88 pgs., 130 illus., 8½ x 11, hard cover **$4.95**

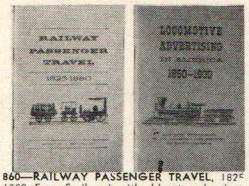
515—SIERRA RAILWAY, Dorothy Newell Deane; daughter of the engineer who built the Sierra RR. How the line was built, neighboring Yosemite Short Line, Empire City Railroad, and lumber roads. Many rare and valuable photos of the Sierra from its start through the diesel era. 300 pgs., 6 x 9. 350 photos **$6.00**

811—BALDWIN LOCO WORKS RECORD #72, Mallet Articulated Locos 1912 ..... **$2.00**

812—BALDWIN LOCO WORKS RECORD #79. Pacific Type Locos 1914 ..... **$2.00**

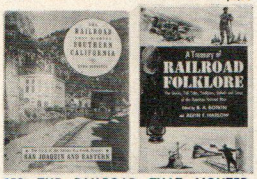
813—BALDWIN LOCO WORKS RECORD #89. Development of the 8-Wheel Loco. **$2.00**

810—BALDWIN LOCO WORKS RECORD #56. Steam Locos of the ATSF. 1096. Paper. **$2.00**



860—RAILWAY PASSENGER TRAVEL, 1825-1880. From Scribner's with old cuts, ads, view, and text. 40 pgs., 5½ x 8, soft cover **$1.00**

861 — LOCOMOTIVE ADVERTISING IN AMERICA, 1850-1900. Selected ads from Poor's and other journals of the period. Useful in period detailing. 40 pgs., 5½ x 8, soft cover **$1.00**

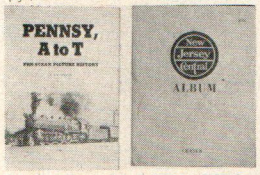


852—THE RAILROAD THAT LIGHTED SOUTHERN CALIFORNIA, Johnston. The story of the San Joaquin & Eastern RR. 128 pgs., many illus., hard cover **$7.50**

411—TREASURY OF RAILROAD FOLKLORE, Bolken & Harlow. A big book on the romance of the rails. hardbound. Low cost reprint **$2.98**

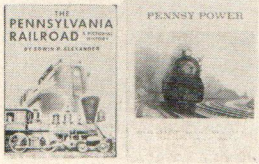
734—PACIFIC COASTAL LINERS, by Andrews and Larsen. 400 dramatic photos and dozens of fascinating tales recapture the glorious past of famous coastwise ships: rate wars, rivalries, races. **$10.00**

419—IRON HORSES, E. P. Alexander. Elaborate volume on steam from 1820 to 1900. Low cost reprint of 1941 book. 8½ x 11, 238 pgs., hardbd. **$2.98**



829—PENNSY, A TO T STEAM PICTURE HISTORY, P & D Carleton. Photos and data on PRR steam power. Paperbound..... **$5.00**

826—NEW JERSEY CENTRAL ALBUM, Crater. Picture history of the CNJ. Some text. Many rare views and equipment photos. Early rolling stock. 66 pgs., 8½ x 11, paper **$3.25**



412—THE PENNSYLVANIA RAILROAD, Alexander. The story of the Pennsy from its early beginnings to 1947. New low price edition. 8½ x 11, hardbound **$2.98**

652—PENNSY POWER, Staufer. Steam and electric locos of the PRR from 1890 thru today. Profusely illustrated 320 pgs., 8½ x 11. **$14.00**

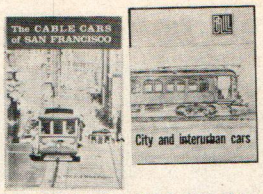
RAILROAD PRINTS

158—UNION PACIFIC STEAM IN PORTRAIT, Howard Fogg. Full color watercolor reproduction by Howard Fogg, gorgeous litho print, wrapped in mailing tube for safe delivery. 17½ x 22 ..... **$4.95**

Ecellent quality prints on heavy pebbled paper, monochrome, 34x14" shipped rolled in tube. Drawn by Staufer.

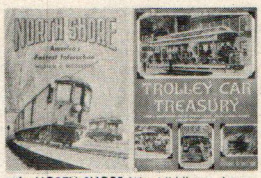
601	NYC Hudson #5344	$1.50
602	NYC American #999	1.50
603	PENNSYLVANIA #6704 M-1a 4-8-2	1.50
604	SO. PAC. #4450 GS4 4-8-4	1.50
605	NYC #204 CUT electric	1.50
606	C&O #1177 Mikado	1.50
607	NYC #6012 Niagara	1.50
608	SOUTHERN #1393 PS4 Pacific	1.50
609	P&LE-NYC #9400 2-8-4	1.50
610	UP #3951 Challenger	1.50
611	PENNSYLVANIA class K4s	1.50
612	SP #4128 Cab-Forward	1.50

Copyright © 1965 by the Model Craftsman Publishing Corporation



507—THE CABLE CARS OF SAN FRANCISCO, by Phil and Mike Palmer. A delightful soft cover book that tells the story of these unusual and still operating cars of yesterday. Over 80 photos in 64 6x9 size pages, plus text. **$1.00**

152—CITY AND INTERURBAN CARS. Reprint of Brill 1911 illustrated catalog. Contains 107 car exterior illustrations, many floor plans, specifications. All types from el cars and gas-electrics to small city cars. 80 pgs., 8½x11, paper **$3.75**

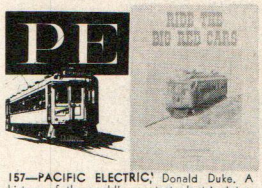


169—NORTH SHORE, Wm. Middleton. America's fastest interurban, from 1890 thru the Electroliner and final abandonment. 128 pgs., 8½ x 11, 214 illus., hard **$7.95**

421—TROLLEY CAR TREASURY, Rowsome & Maguire. A century of American streetcars, 60,000-word text. 300 nostalgic photos. 8½ x 11, 200 pgs., hardbd. Low cost reprint...**$2.98**

825—WHEN THE WESTCHESTER WAS NEW, Arcara. Reproductions of NYW&B articles from old early Electric Ry. Journals and Railway Age Gazette. NYW&B and Erie Stillwell coach data. Many illus., 62 pgs., 8½ x 11 paper **$2.50**

624—WESTCHESTER'S FORGOTTEN RAILWAY, Arcara. Text, maps, 67 pix of short lived N.Y. electric railroad. Many rare photos. 64 pgs., 8½ x 11, paper **$2.50**



157—PACIFIC ELECTRIC, Donald Duke. A history of the world's greatest electric interurban rail system. A full pictorial history complete with maps, text, striking wrap around cover. 64 pgs., 100 illus., 8½ x 11 ..... **$3.75**

840—RIDE THE BIG RED CARS, Spencer Crump. Narrative history of the Pacific Electric, packed with illustrations. 240 pgs., 8½ x 11, hard bound **$12.50**

752—STREET CARS & INTERURBANS OF YESTERDAY. Largely reprinted from rare old 1911 Electric Ry. Dictionary. Over 775 dwgs., pix., 175 pgs., 8½ x 11, cloth. Second printing. **$10.00**

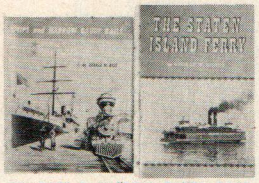
754—FT. WAYNE'S TROLLEYS, Bradley. Street cars and interurbans of the Indiana Service Corp. and other lines, maps, photos, text. 7 x 10½, 176 pgs., hard bound **$6.95**

801—RAILWAY LOCOMOTIVES OF BRITAIN, 1960 Revised Edition, Casserly. Describes steam and diesel locos of Great Britain. Over 200 photos. Gives classes, dates, regions. 284 pgs., 3¾x5¾. Hard cover **$1.25**

753—LOCOMOTIVES OF THE READING, Warner. Reprint from 1923 Baldwin mag. with additional Pennypacker photos. 8½x11, 32 pgs., paper. **$2.00**

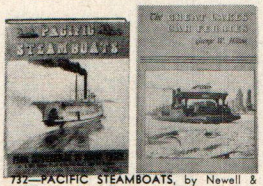
835—HERE COMES THE TROLLEY, Gurley. Lines of Utica and Central New York. 85 illus., paper **$1.25**

159—1965 RAILROAD APPOINTMENT CALENDAR. Pacific Railway Journal edition **$2.00**



530—SHIPS & NARROW GAUGE RAILS, Best. History of the Pacific Coast Co. 215 illus., 8½ x 11, 160 pgs., cloth binding.... **$6.00**

529—STATEN ISLAND FERRY, Hilton. Complete history, operation and guide to the most famous of all ferries. 6 x 9, 64 pgs., color cover, paper **$1.00**

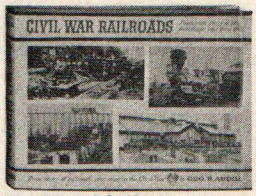


732—PACIFIC STEAMBOATS, by Newell & Williamson. Sea lore aplenty, from sidewheelers to motor ferries. Impressively pictured. **$10.00**

519—GREAT LAKES CAR FERRIES, George Hilton. Marine railroading on the Great Lakes, a unique blend of seafaring and railroading. Many photos, disasters, specifications, ship rosters, illus., fascinating history. Hard bound. 282 pgs., 6 x 9 ..... **$6.00**

863—NEW YORK'S VOLUNTEER FIRE DEPT., 1790-1866. Interesting text and cuts of early fire equip. 40 pgs., 5½ x 8½, paper **$1.00**

862—AUTOMOBILES OF 1904. Reprint from Frank Leslie's Popular Monthly. Data on 88 early automobiles with illustrations. 40 pgs., 5½ x 8½, paper **$1.00**



738—CIVIL WAR RAILROADS, Abdill. Story of railroading in an era of woodburners, guerrillas, blood, and battle. A must for period fans **$12.50**

MODELING AND COLLECTING

253—MINIATURE TRACK DESIGN, Walthers. 1944 edition. Excellent for the modeler who wants to lay his own track in comformity with prototype practice. 64 pgs., paper **$1.00**

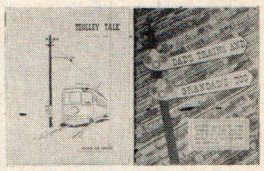
242—RAILFAN DIRECTORY 1964. Over 150 pages of fans firms, photos, 6 x 9 paper. **$3.00**

243—TRACTION FAN'S DIRECTORY—1965. 1964 Edition finally available. 80 pages of fans, photos. 6 x 9, paper **$3.50**

257—FREIGHT CAR DESIGN MANUAL, by Walthers, 1946. 64 page booklet describing all types of cars, lettering rules, terms, etc.... **$1.00**

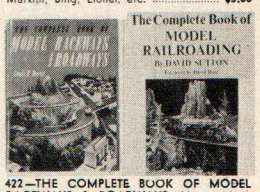
258—2-RAIL BOOKLET, by Walthers. Concise 19 page text explains the problems of 2-rail, and gives the answers **50c**

252—SIGNALING, by W. K. Walthers. 48 page booklet on signals, switch machine wiring, etc. **75c**



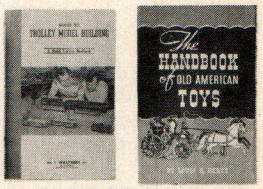
761—TROLLEY TALK, VOL. I. First 20 issue reprint of R. M. Wagner's popular trolley chit-chat paper. 100 pgs., 8½ x 11, paper.... **$4.25**

354—DADS TRAINS AND GRANDADS, TOO, Krames. Plastic bound picture book showing nearly 90 old time trains including Carette, Marklin, Bing, Lionel, etc. **$3.00**



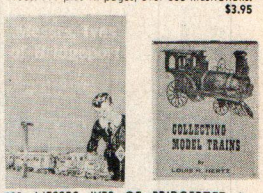
422—THE COMPLETE BOOK OF MODEL RACEWAYS & ROADWAYS, Hertz. Many aspects of model motoring are covered in this illustrated work. Some old toy trains included. Suggestions on adding HO and ¼-inch cars to train layout. 215 pgs., 7½ x 10, hardboard. **$5.95**

828—COMPLETE BOOK OF MODEL RAILROADING, David Sutton. Basic data on buildment. 18 chapters plus bibliography and glosing a railroad. Many mfrs. photos of equipsary. 9 x 11, 340 pgs., hard cover **$15.00**



251—GUIDE TO TROLLEY MODEL RAILROADING, by W. K. Walthers and R. M. Wagner. 72 page manual on overhead wire, clearances, and the many special problems facing the trolley fan. Many illustrations. Soft cover, 5½x9 ..... **$1.50**

203—THE HANDBOOK OF OLD AMERICAN TOYS, by Louis Hertz, is the only authoritative work on the subject of old American Toys, and is a necessity for all serious collectors, historians, and students of social history. Early tinplate railroading is covered in a clear and concise manner, giving a clear picture of the role played by toy trains from 1860 thru the 1930s. 119 plus vii pages, over 500 illustrations. **$3.95**



202—MESSRS IVES OF BRIDGEPORT, by Louis H. Hertz, is a must for anyone who has ever owned or seen any Ives equipment. This book gives the whole history of one of the true pioneers in the field; right up thru the Lionel acquisition of Ives. Data in this volume makes it easy to spot Ives cars as to period of manufacture. A tremendous volume that takes you back to the days of real tinplate, lithography, and brass trim. 160 plus xv pages. **$4.50**

205—COLLECTING MODEL TRAINS, by Louis H. Hertz, is by far the most comprehensive work ever written on this fast growing new aspect of model railroading. This book will prove of great practical use as more and more of the older and finer models command increasingly higher prices. In telling how to find, identify, and collect various train models, this book could pay for itself in a short time. 352 pages, lavishly illustrated, 6¼ x 9½. **$6.95**

ORDER TODAY

CARSTENS PUBLICATIONS

MODEL CRAFTSMAN PUBLISHING CORP. **Dept. 5055**
P.O. Drawer C
Ramsey, New Jersey 07446

I am enclosing check or money order for $..... Please send me the books I have checked below. (If you do not care to cut magazine, print or type titles on separate sheet).

Name .....

Street .....

City ..... State ..... Zip .....

Please add 10c postage for all orders under $2.00

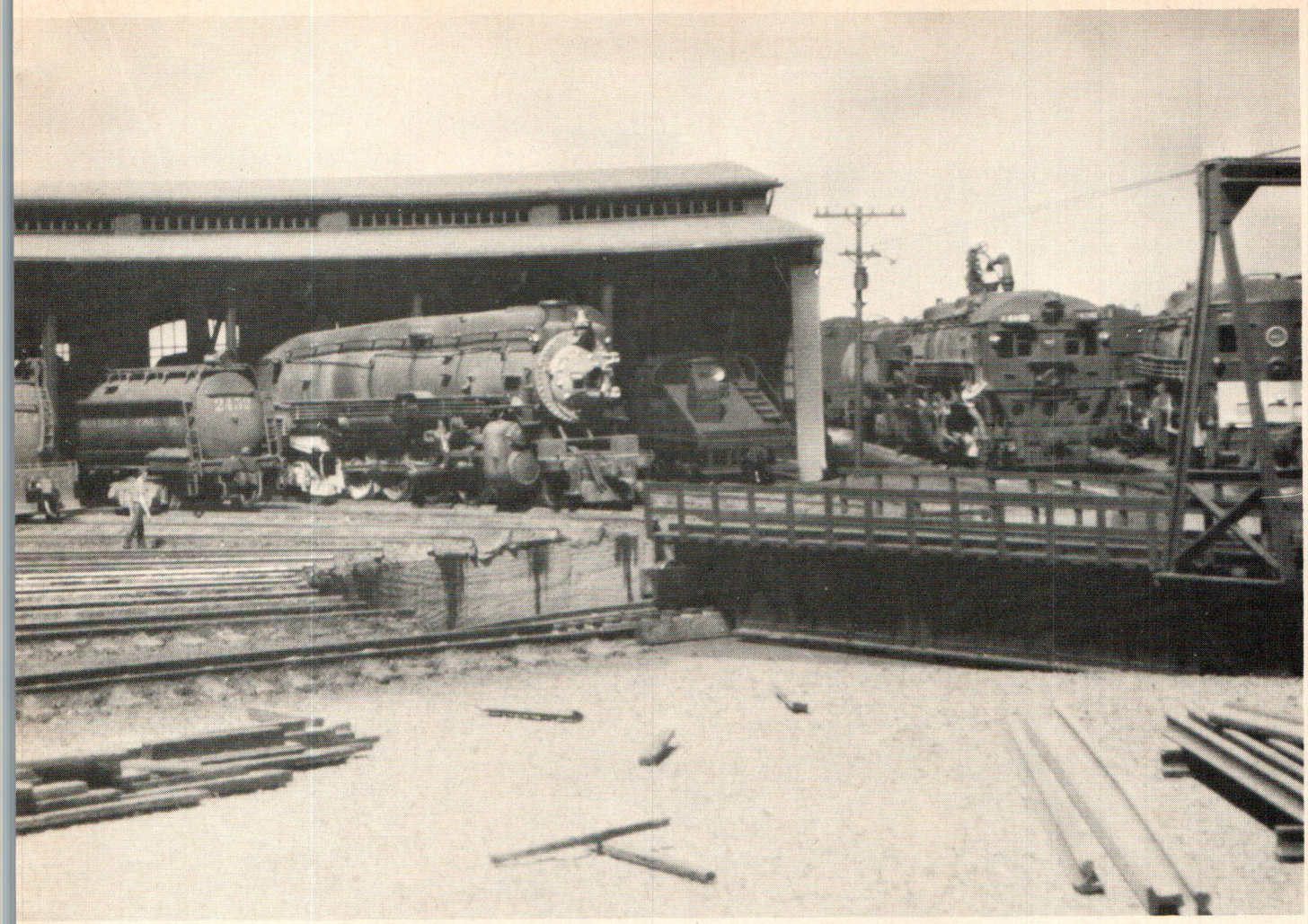
A Day at the ROUNDHOUSE

by Paul Jansen

There's a constant parade of gorgeous steam power in and around the Paul Jansen engine terminal and we'd gladly add any of them to our roster.

RIGHT: Typical of the many small engine terminals found in operation during the 1930's is this Jansen model made from a Vollmer kit but extensively altered to house more and larger engines.

BELOW: The giant AC-4 Cab-Forward was Max Gray's production sample and the first one in the U.S. The crew is giving her a first rate going over.



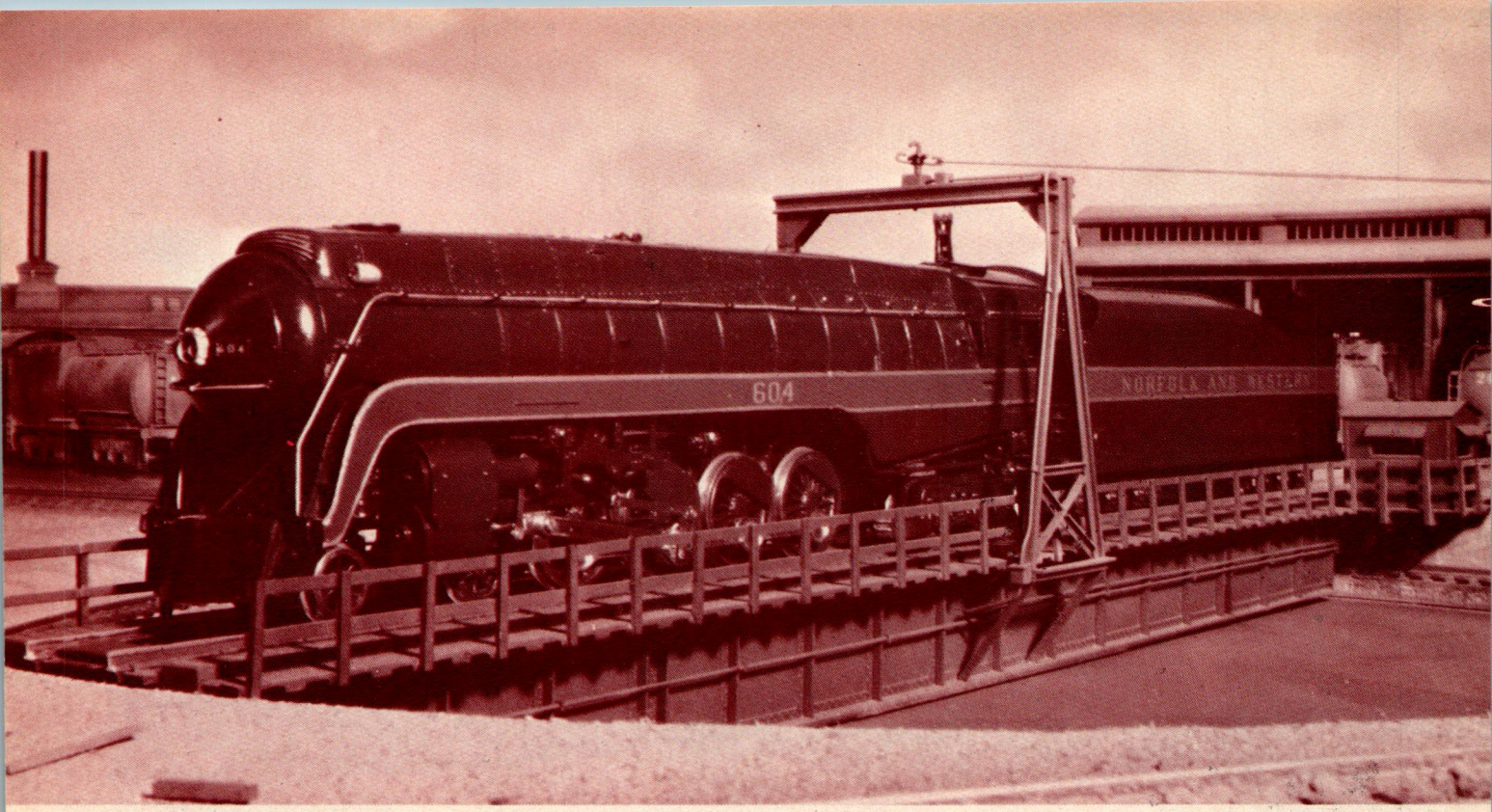
JUST AS some railroad modelers are primarily interested in scenery or operation, so other modelers prefer to customize quality locomotive models and photograph them in near-prototypical settings.

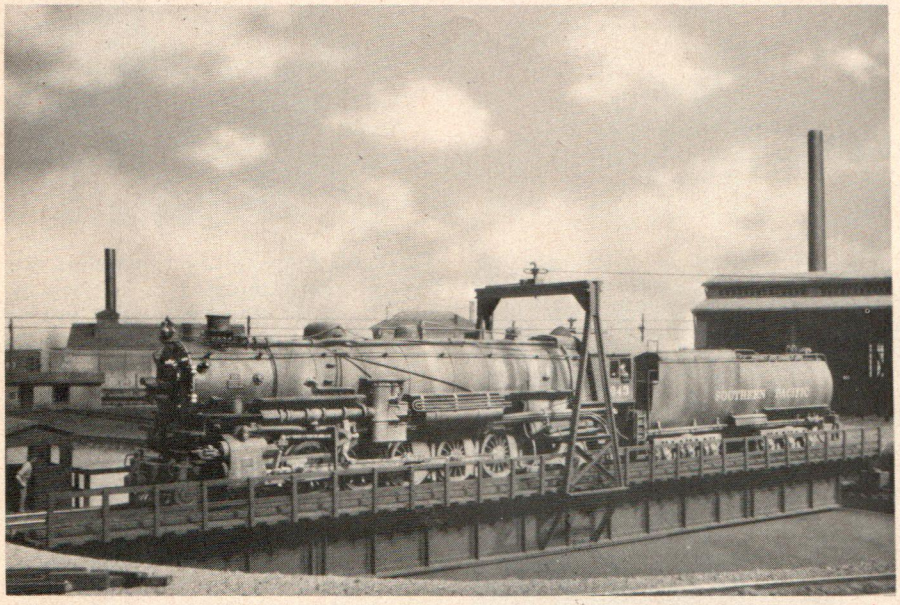
One of the leaders in the perfection-detail school is HOer Paul Jansen, who has also been known to duplicate his efforts in scale O with equal or even better results.

Lacking space for a layout at present, Paul has nevertheless created a giant new engine facility which permits photographing from just about any desired angle. An earlier photographic setting was often pictured in RMC but lacked the versatility and depth of the new setting.

Heart of the new engine terminal is a thoroughly enlarged and reworked Vollmer 6-stall engine house, lengthened with brick sheet. The turntable is a combination of Atlas and Revell parts, to which were added a fence and bridge for power feed.

Most of the engines found on the Jansen setup are Southern Pacific but its not at all rare to find foreign locos bearing such names as Norfolk & Western, or New York Central. Paul's excellent modeling and photographic capabilities have brought him to the attention of several west coast importers who make frequent use of his talents.

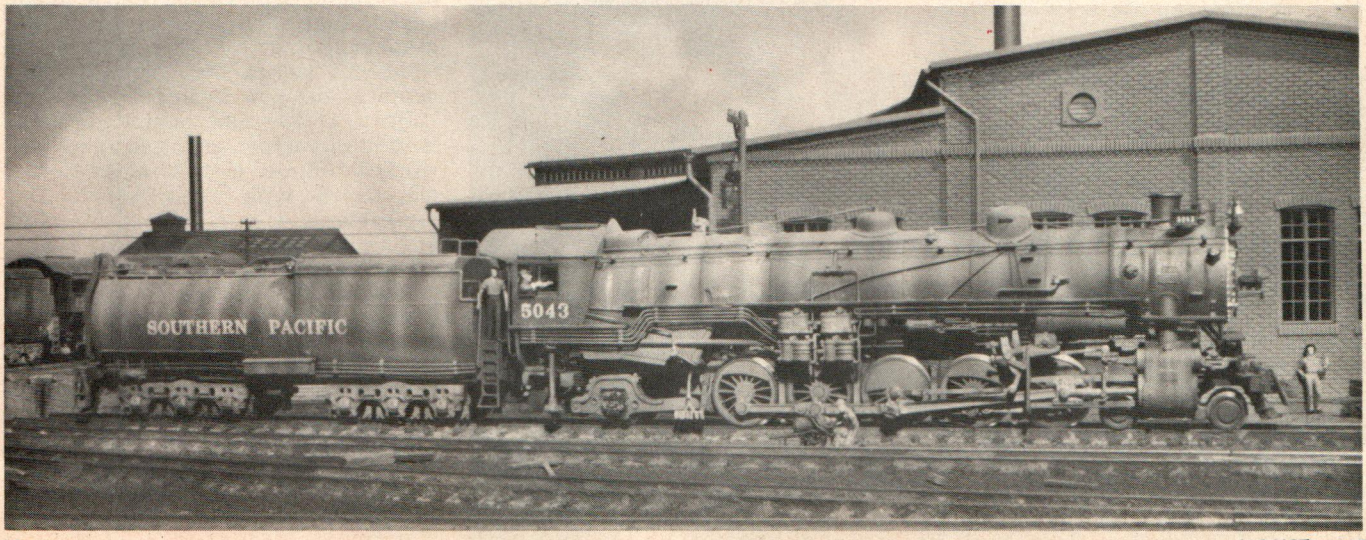




TOP: A rare HO Norfolk & Western class J 4-8-4 owned by Pete Constantatas of San Francisco. The turntable is a combination of Atlas and Revell bridges with scratch built power feed and fence.

LEFT: Max Gray SP 5000 class 4-10-2 gets turned on the new Jansen turntable. As per western practice, Jansen gave roundhouse an open front.

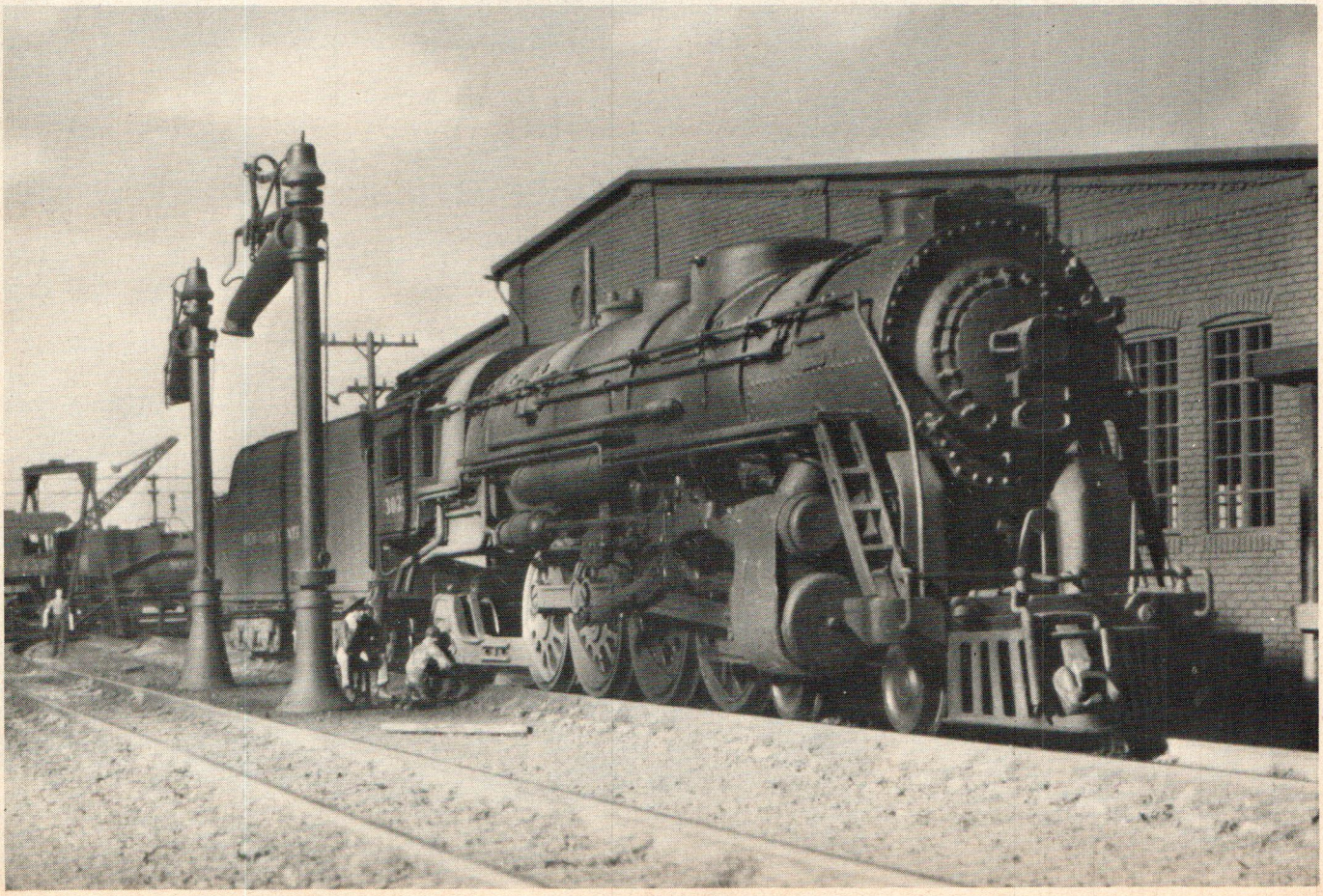
BELOW: Another view of the giant No. 5043, owned by Bob DuPont, and painted and weathered by Jim Williams of South San Francisco, California.



TOP: Who says steam engines all look alike? Differences between the AC-12 and AC-4 class cab-forward articulates show up plainly in this head on view as the two engines await their turn for water and fuel assignments.

photos by Paul Jansen

BELOW: Pennsy fan Gene Demling's first attempt at weathering is this giant New York Central Mohawk, far from home on Jansen's terminal.

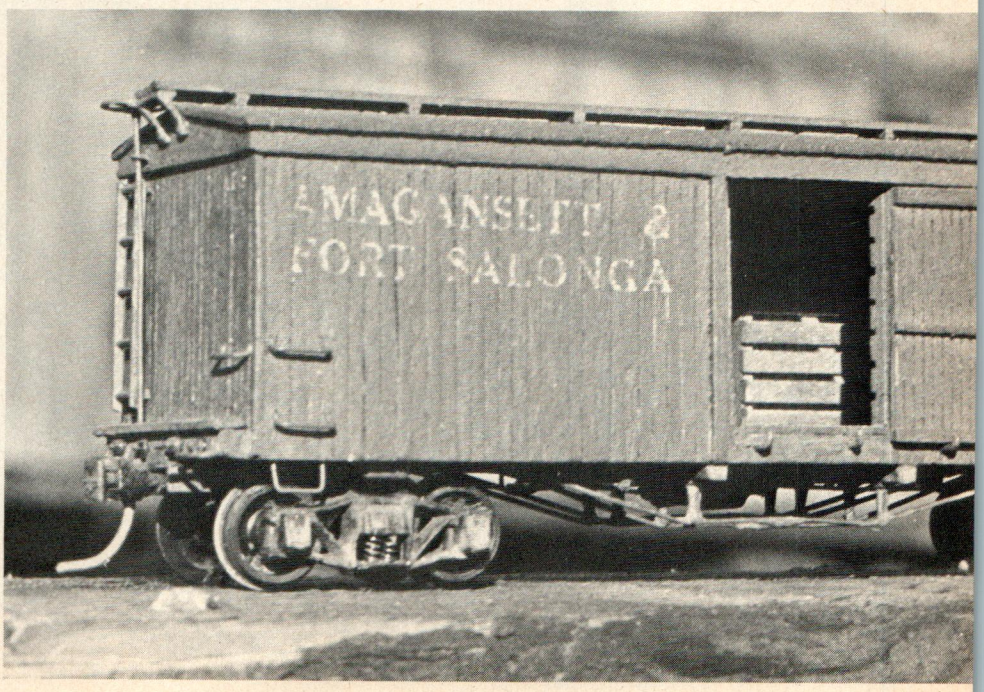


We pay $5 for reader's photos used in this section. Send size 4x5 or larger prints to: Editor, Railroad Model Craftsman, Ramsey, New Jersey.

BOOMER

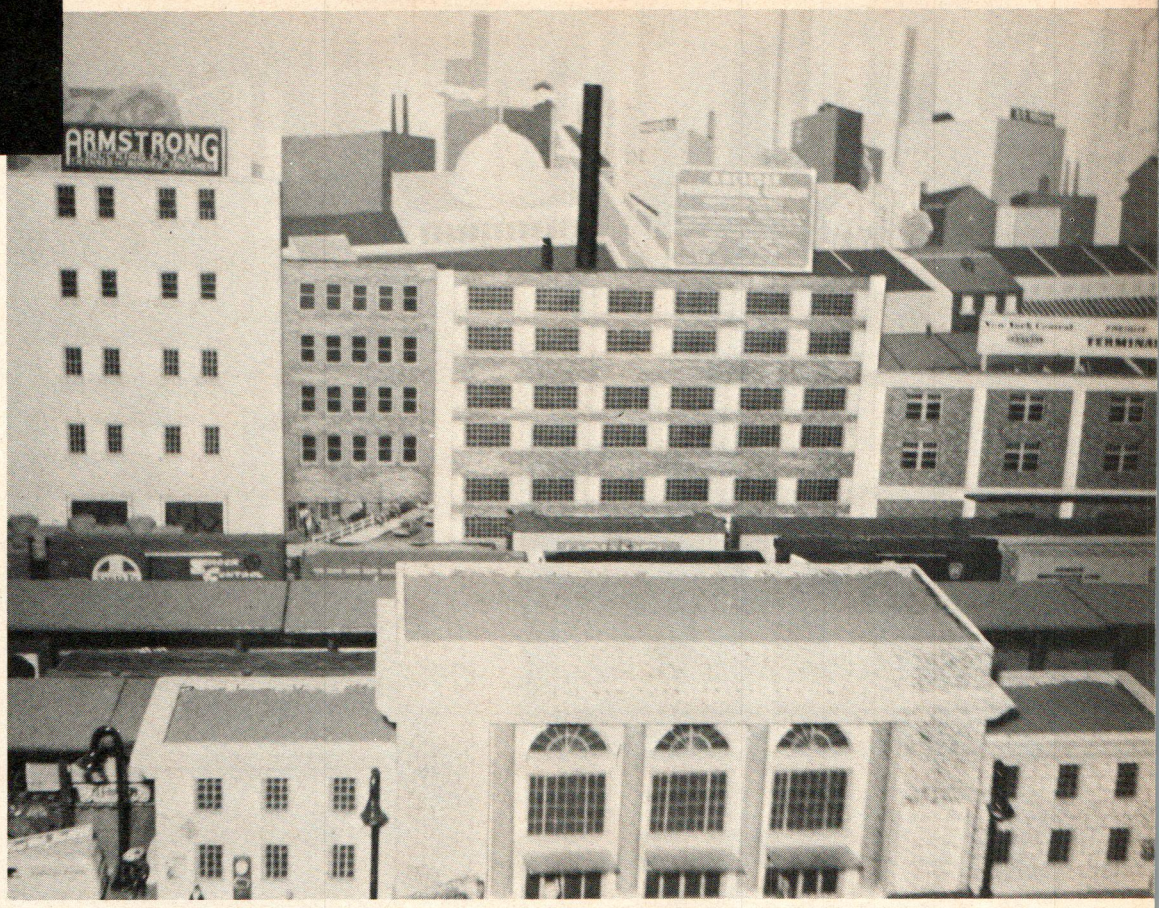
Andrews and his men prepare to steal the train

THE GREAT LOCOMOTIVE CHASE is depicted in an HO scale diorama built by Robert N. Watson, 119 Blauvelt Ave. Ho-Ho-Kus, New Jersey, for exhibition at the Paramus (N.J.) Historical Society. The original General locomotive was built at the famous Rogers Works in nearby Paterson. The licomotive model and cars are from the famous Tyco Works, also in New Jersey!



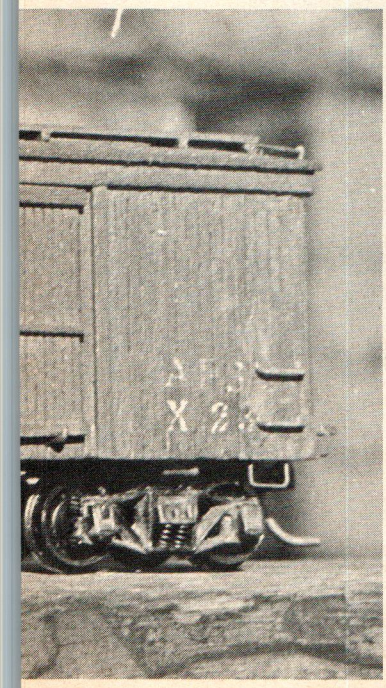
Oldtime 36 ft. wood boxcar, built by Frank W. Skutsch, 56 Commander Ave., Garden City, N.Y., used individual stripwood for floor and side construction, and features full brake rigging. The model took 3rd place at the NER Bellows Falls, Vermont spring convention in May.

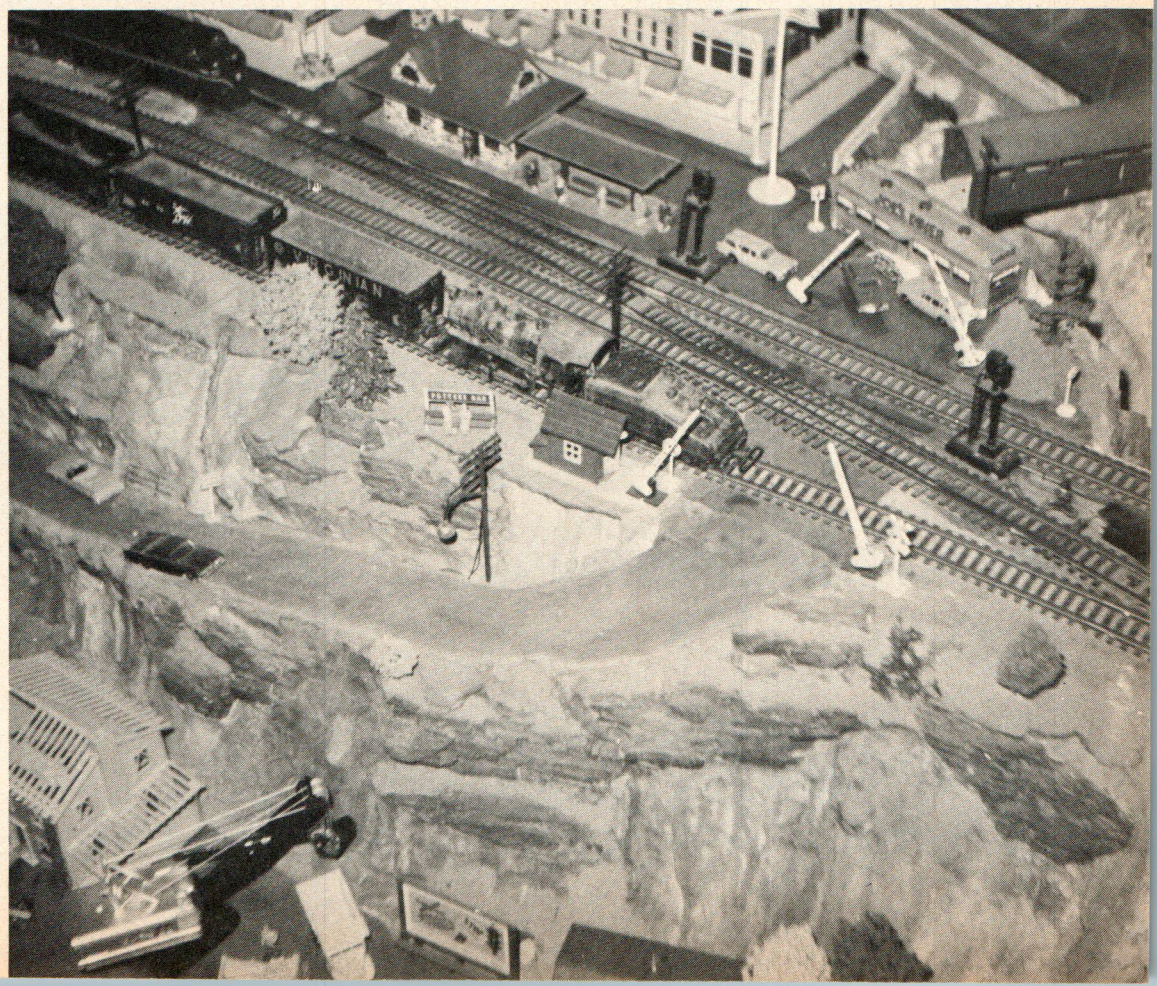
TRAIL



Another scene on the Cliff Walker pike shows the diversity of scenic construction. Most structures at Irvington are kit built. Rock outcroppings are decayed wood pieces set in wire and plaster terrain. Hey, lets get those gates down before somebody gets clobbered!

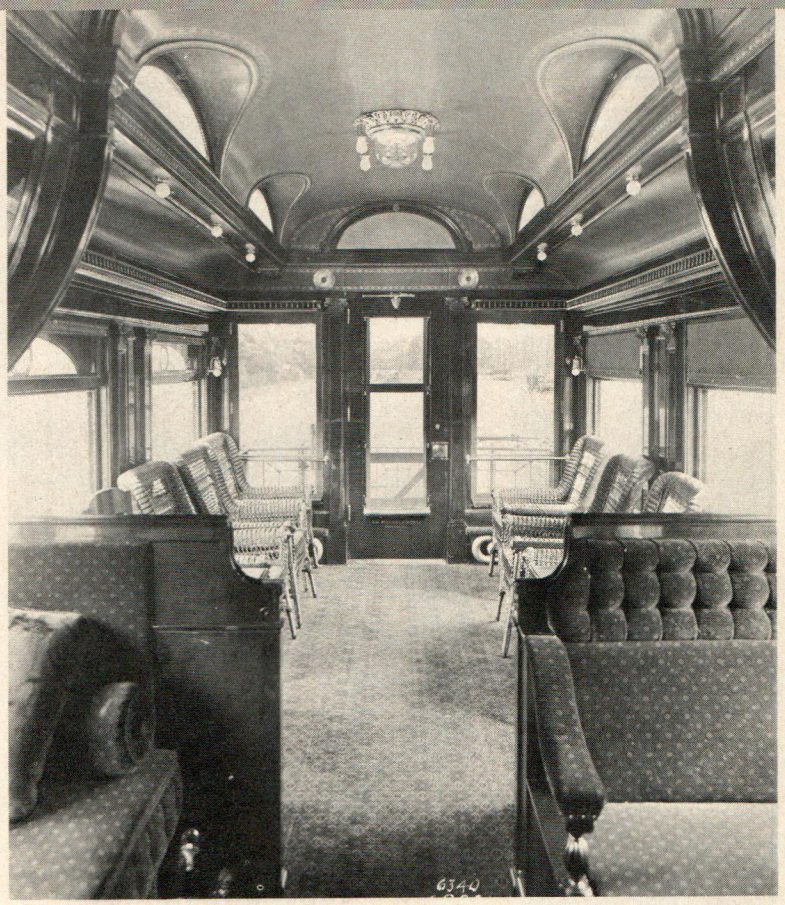
The big city scene is generally avoided by most model rails but not by Clifford Walker, 38 West Street, Newtown, Conn. 06470, an HOer since 1938,. The giant station building is scratch built, as are the station platforms and the 3-D background buildings.





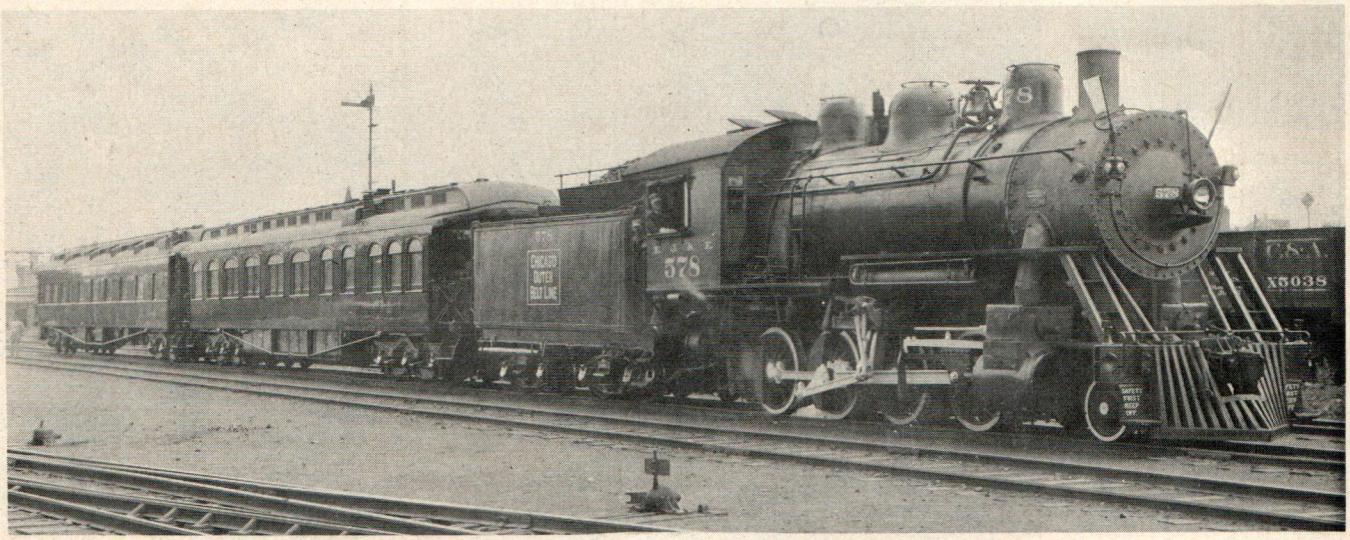
PRIVATE CAR No. 40

Moving day, Feb. 1, 1964, was the start of Car 40's last trip. Along for the last ride were Bob Bullerman, Russ Porter, and Bob Ferge, and Rob and Sue Porter. Car has all wood body.

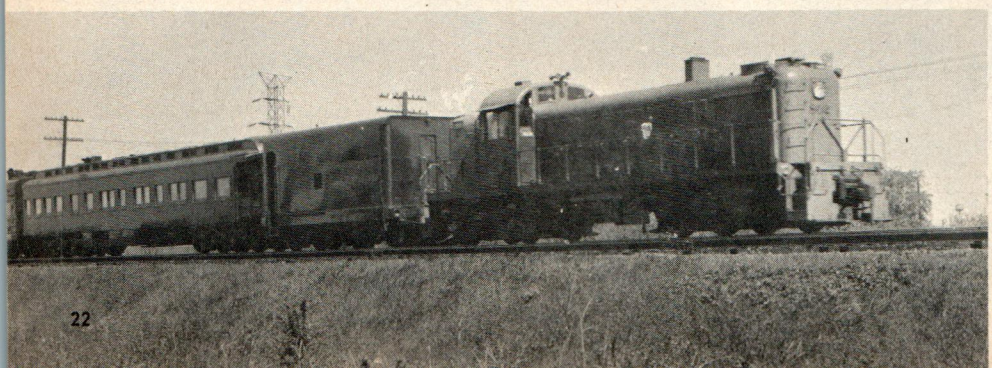


Pullman Standard's archives turned up this fine view of the car's interior when brand new at the Pullman shops in 1901. 40 was a lady!

Russ Porter, RMC's Midwestern Editor, bought Elgin, Joliet & Eastern's Private Car No. 40, built by Pullman in 1901 and rebuilt in 1951, as a summer and retirement home. Plans by Russ show the car as built and as rebuilt.



With engineer A. Benson and fireman E. Ashley in the cab of 2-8-0 No. 578, Cars 50 and 40 go for a tour on June 3, 1936, as a special.



Another special, May 15, 1956, saw cars 103 and 40 riding behind Alco road switcher 802. No. 40 had by now been completely rebuilt.

Elgin, Joliet and Eastern Railway Company

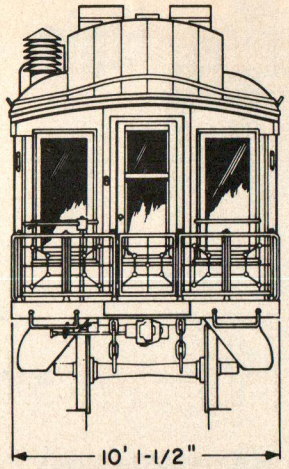
PRIVATE CAR NO. 40

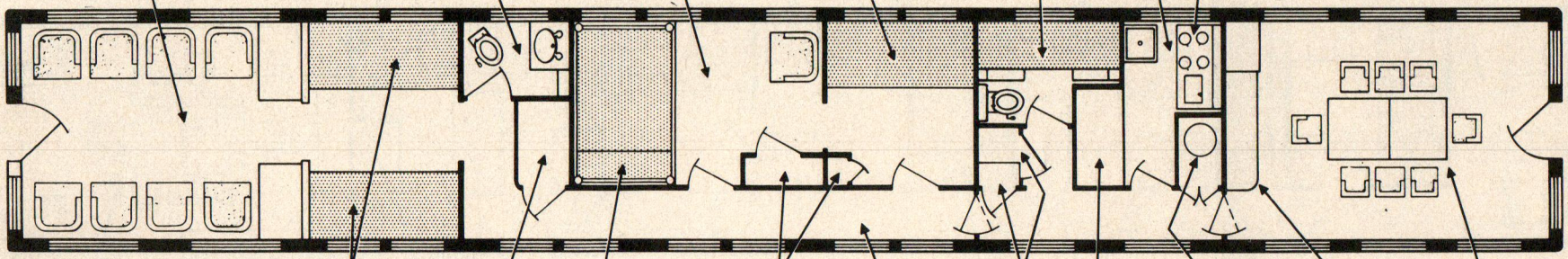
BUILT BY PULLMAN IN 1901

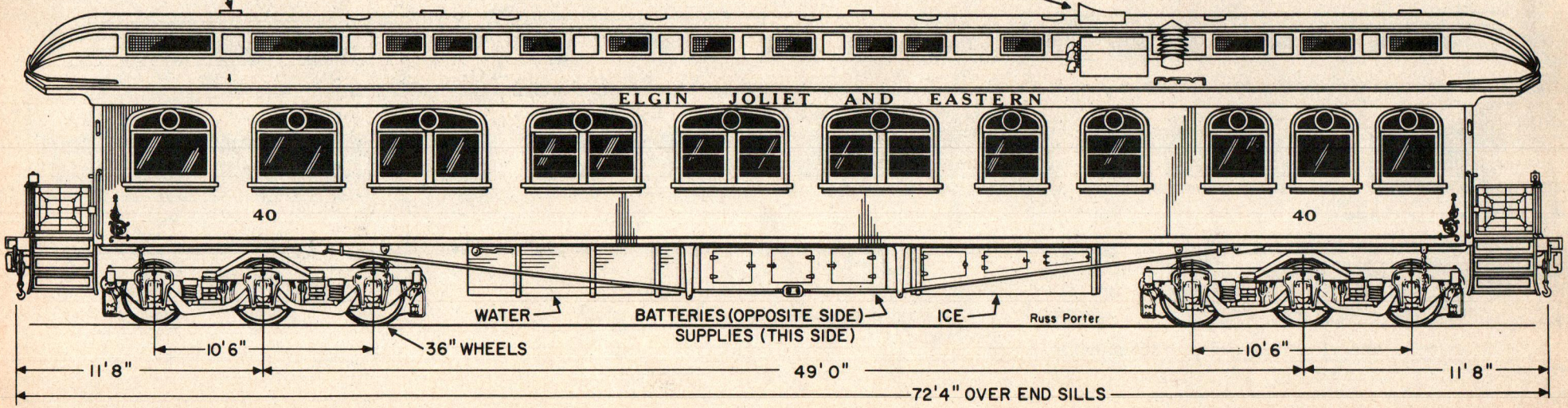
drawn by Russ Porter

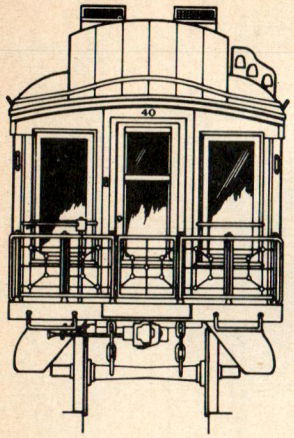
DINING ROOM END SHOWN

BOTH OBSERVATION PLATFORM DETAILS IDENTICAL







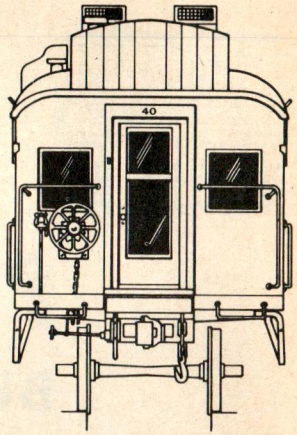


Elgin, Joliet and Eastern Railway Co.

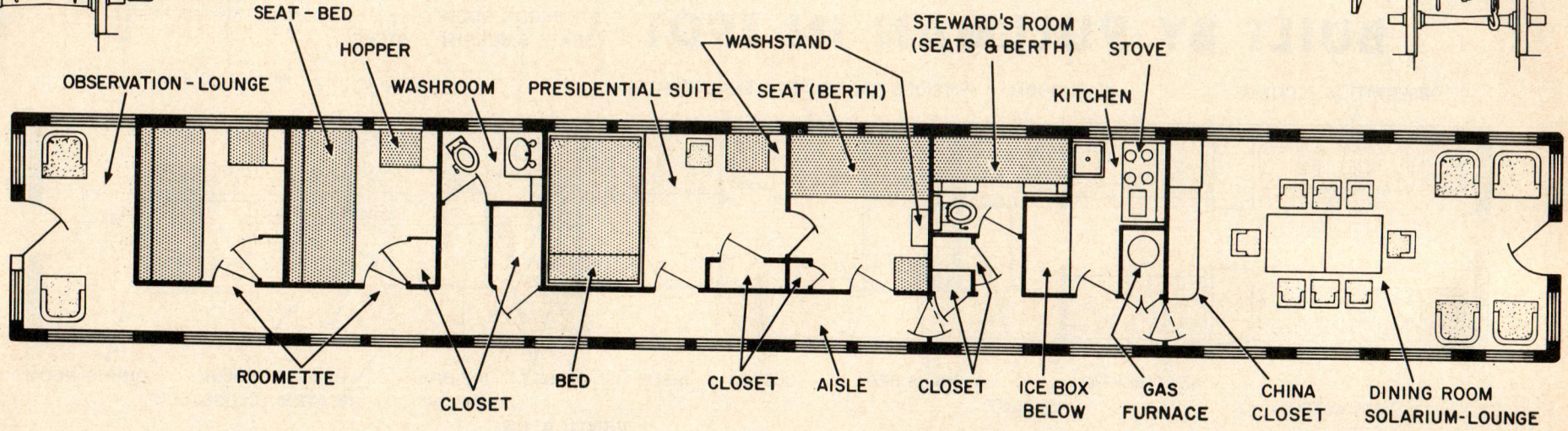
CAR NO. 40

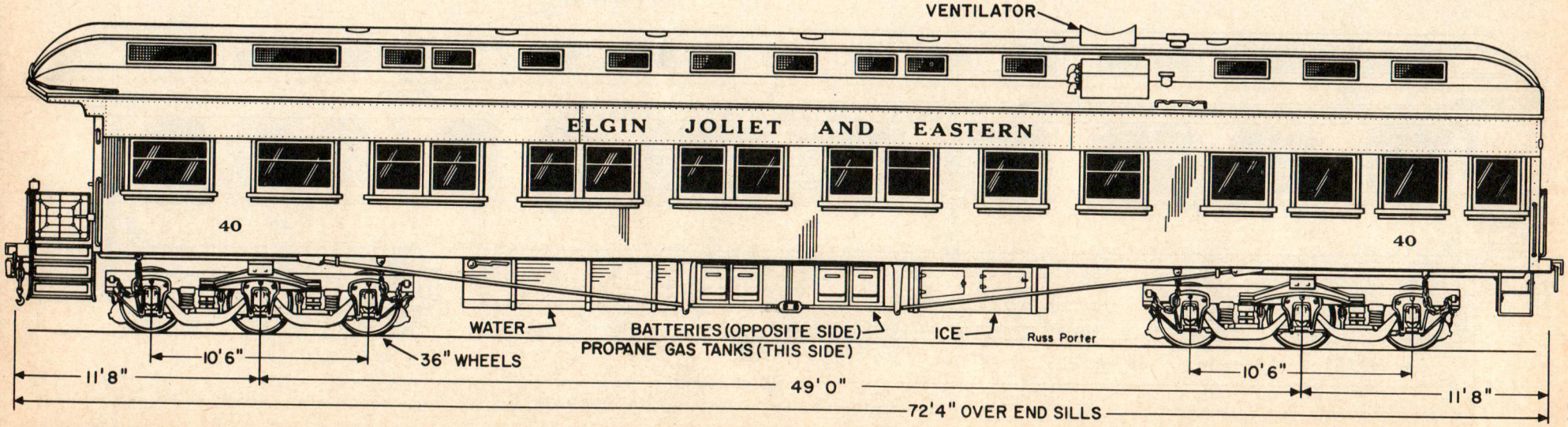
AS REBUILT IN 1951

**Many thanks to the following for their assistance: Nora Wilson of Pullman Standard for locating the fine interior photo of the car when built in 1901, T. G. Bourne, G. F. Bachman and R. J. Schiek of the EJ&E Ry. for data in making the two car plans, Lucius Beebe for having an early photo of the car in his book, "Mr. Pullman's Elegant Palace Cars," and Norm Sandley, owner and builder of the Riverside & Great Northern Ry. at Wisconsin Dells, who was responsible for placing the 69 ton car on the lot.



AUGUST, 1965





IN 1901, the Pullman Company built, for the Elgin, Joliet & Eastern Railway Company, an elegant private car numbered 40.** As a freight only belt line around Chicago, stretching from Waukegan, Ill., through Joliet (the main terminal) to Gary and Porter, Ind.; the EJ&E Ry. Presidents used #40 on many business trips.

Car 40 had the rare distinction of beginning and ending its career as a Presidential car, something alas, the majority of fine private cars did not do. Most of them spent their declining years in work trains, at the tail end of circus trains and in a few cases as instruction cars. After it was rebuilt in 1951, it was I believe the only private car in existance with an observation platform at one end and a solarium at the other.

Off her trucks, Car 40 is ready for a move to her new home at the Wisconsin Dells, Wisconsin.

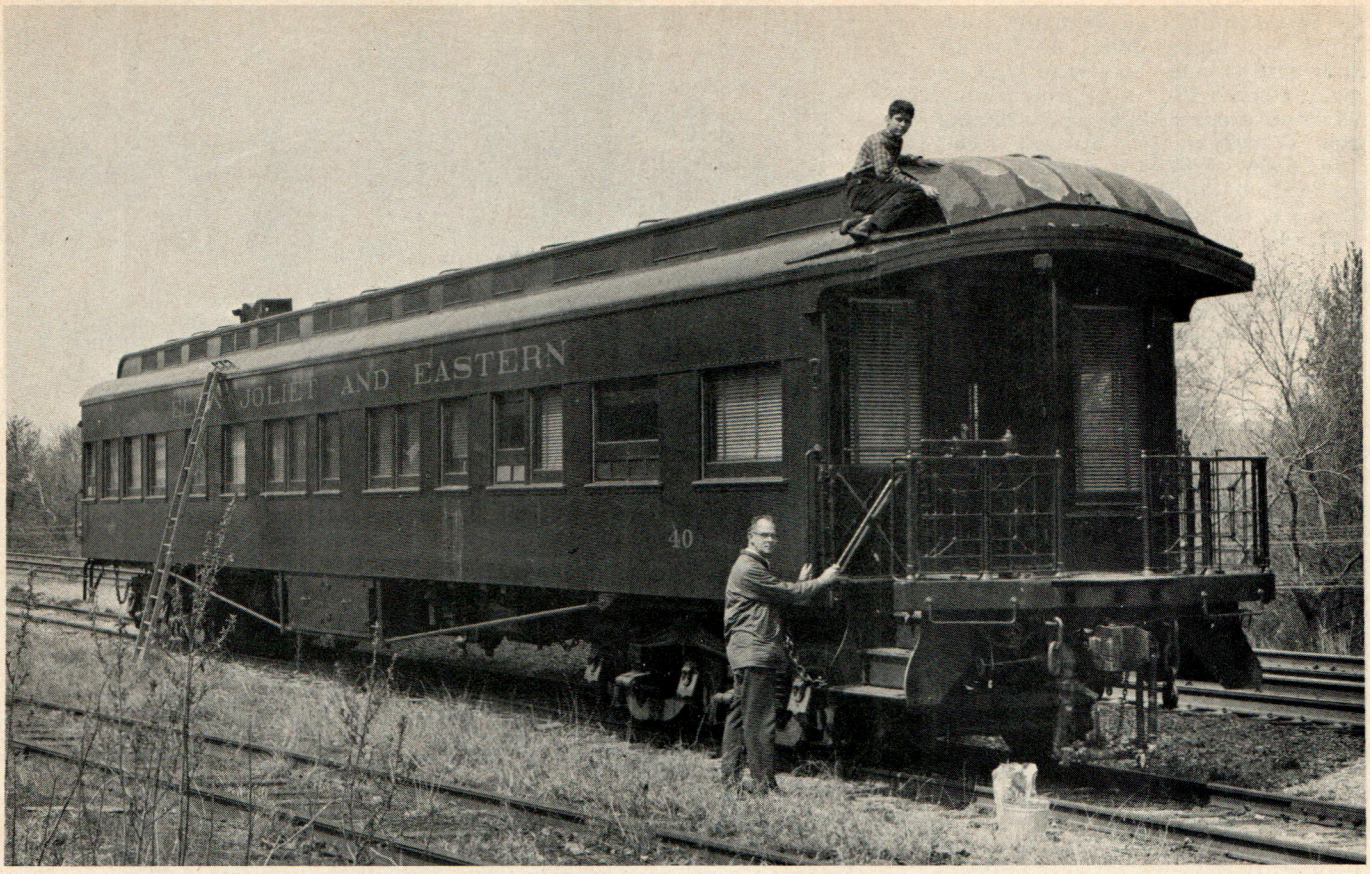
On her way during a near blinding snowstorm, Car 40 travels slowly down the highway. These were breath taking moments for all concerned.

Car 40 was placed in storage at Joliet, Ill. in 1959 until 1963 when it was purchased by me. In March 1965 it was placed on a newly laid 90 foot length of track on my lot near Wisconsin Dells, Wis. In the summer the car will once again have the aroma of coal smoke, as it is situated near the north end turntable of the 15" ga. "Riverside & Great Northern Railway," which constructs steam locomotives and cars for sale throughout the USA. In the Fall and Winter, the mainline of the Milwaukee Road can be seen from almost every window of car 40.

The family plans to gradually remodel the car to a period of about 1930 and is now restoring the brass railing at the observation end. The dark mahogany interior needs no work, but the modern, flush ceiling lights in the lounge will be replaced by grass fixtures. Outside lettering was recently completed. In the near future, the ornate scrollwork as shown on the exterior plan of the 1901, will be attempted. Car is being used as a summer home and art studio now and will be our retirement home in the future.

ABOVE: 40 is backed into the lot at her new home on a specially prepared length of track. Car 40's two trucks were trucked in earlier.

BELOW: Off the lowbed trailer, Car 40 is now lowered gently on to her six wheel trucks. Every move had to be done with utmost care.

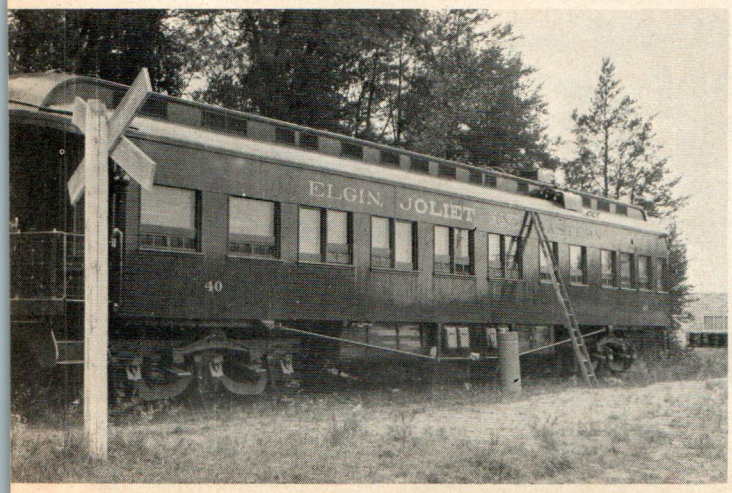


Porter and son Rob at work refinishing the copper roof end prior to moving the car. When built, car boasted arch windows, two end platforms, and arched clerestory windows. Rebuilding was in 1951.

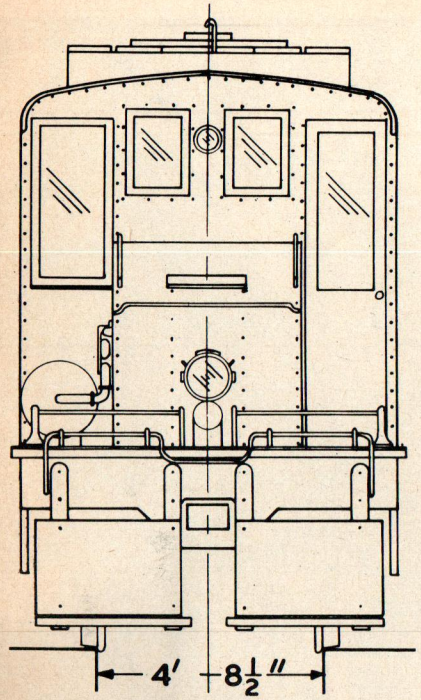
Modern solarium end replaced second open platform in 1951, at same time that steel plate was added to cover graceful old arch windows.

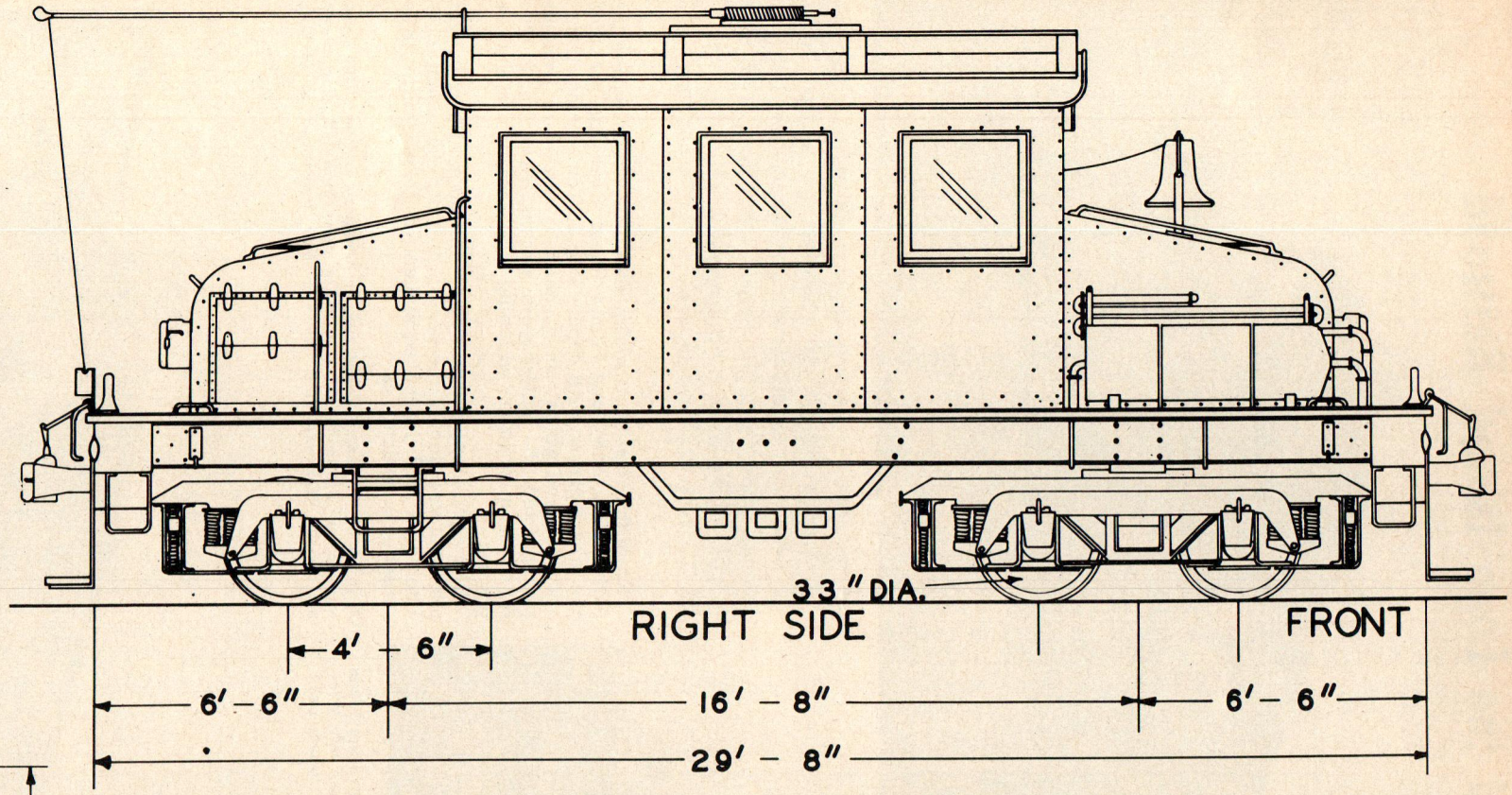
Photos by Ben Benson, EJ&ERR; Russ Porter, Pullman Standard Car Co., and EJ&ERR archives.

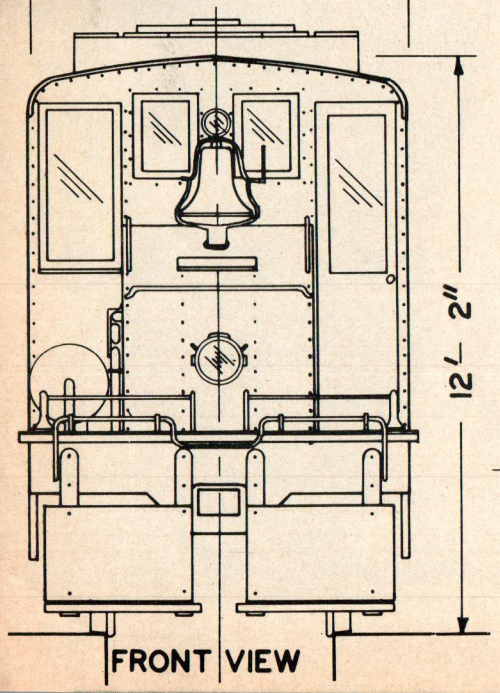
40 at rest at her new home near the Wisconsin Dells, mounted on a length of specially laid track. Plans are to remodel the car much as she was in 1930. To be added: ornate exterior gold scrollwork.



Much restoration work was done prior to time car was moved to new home. In this view, 40 is receiving new road name lettering and brass restoration. Car is pictured in Beebe's "Pullman Palace Cars."



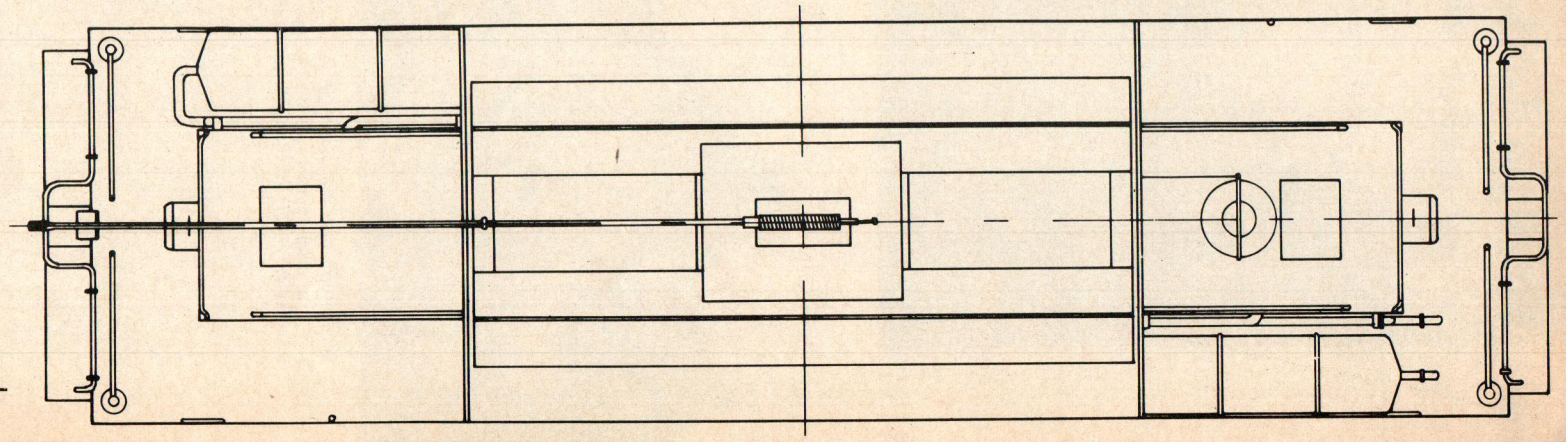




KANSAS CITY, KAW VALLEY WESTERN RY.

drawn by Larry Jackman

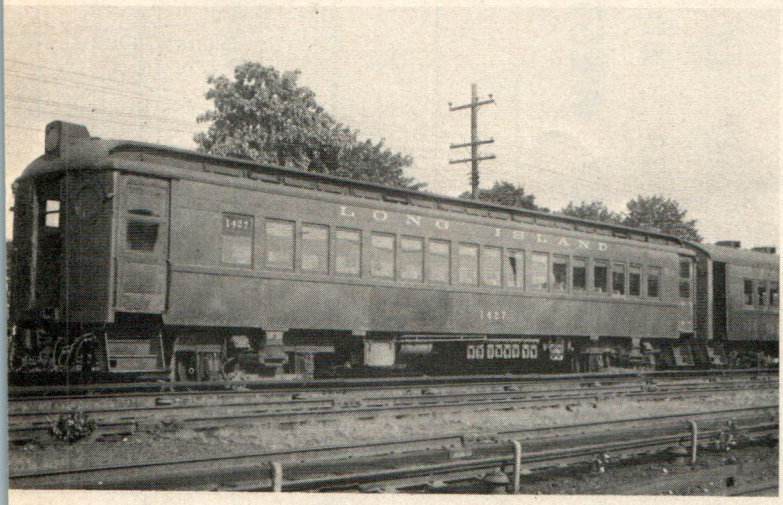
Kansas City, Kaw Valley & Western bought this chunky 45 ton steeple cab locomotive in 1944 from the Transit Equipment Co. of Passaic, N. J. and scrapped her in 1956.



Multiple Unit Cars of the Long Island Railroad

by Jeffrey Winslow

Photos by Jeffrey Winslow



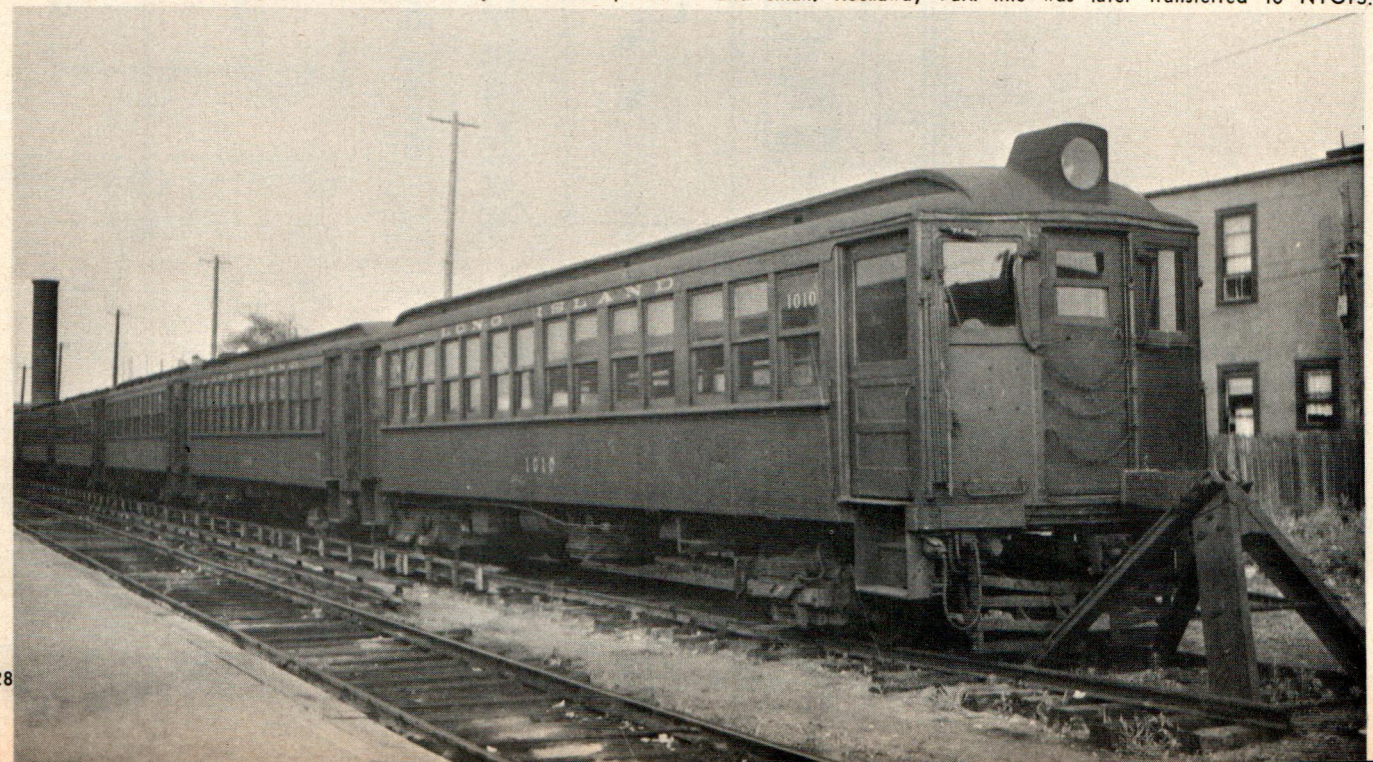
MP54 type multiple unit cars were also at home on the Long Island but are disappearing rapidly as newer cars take over. Jeff Winslow caught 1427 at Hempstead back in the days of tuscan paint.

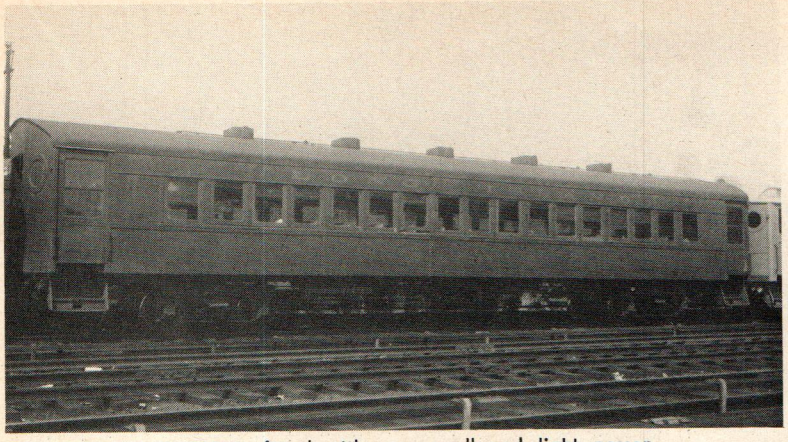
One of the first railroads to adopt all steel passenger equipment completely, the Long Island has gone through several transitions with its fleet of multiple unit equipment.

From the start of its multiple unit operation during the early 1900's, the Long Island Rapid Road has provided the area it serves with dependable and clean mass transportation and was at times thanked with abuse from its patrons and the newspapers serving New York, who found it a popular whipping boy lacking retaliatory powers.

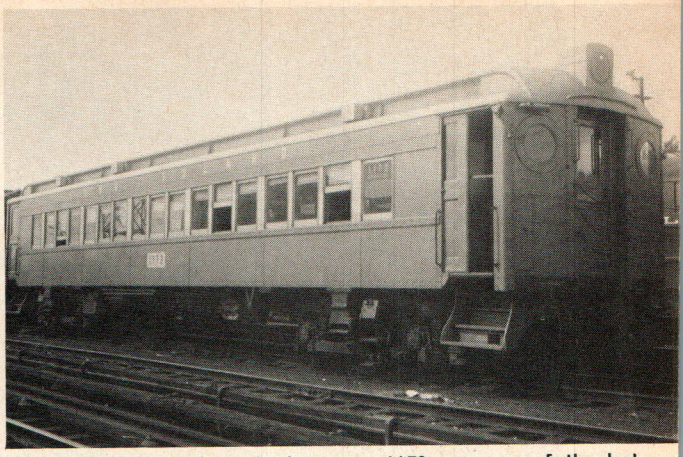
The equipment shown depicts the major types bought and operated during the period 1910 through about 1950. Photos of still newer equipment will be shown in a subsequent article.

A string of the famed Gibbs cars at Rockaway Park in 1940. Series was similar in size to IRT and H&M cars; were old, slow, noisy, and small. Rockaway Park line was later transferred to NYCTS.

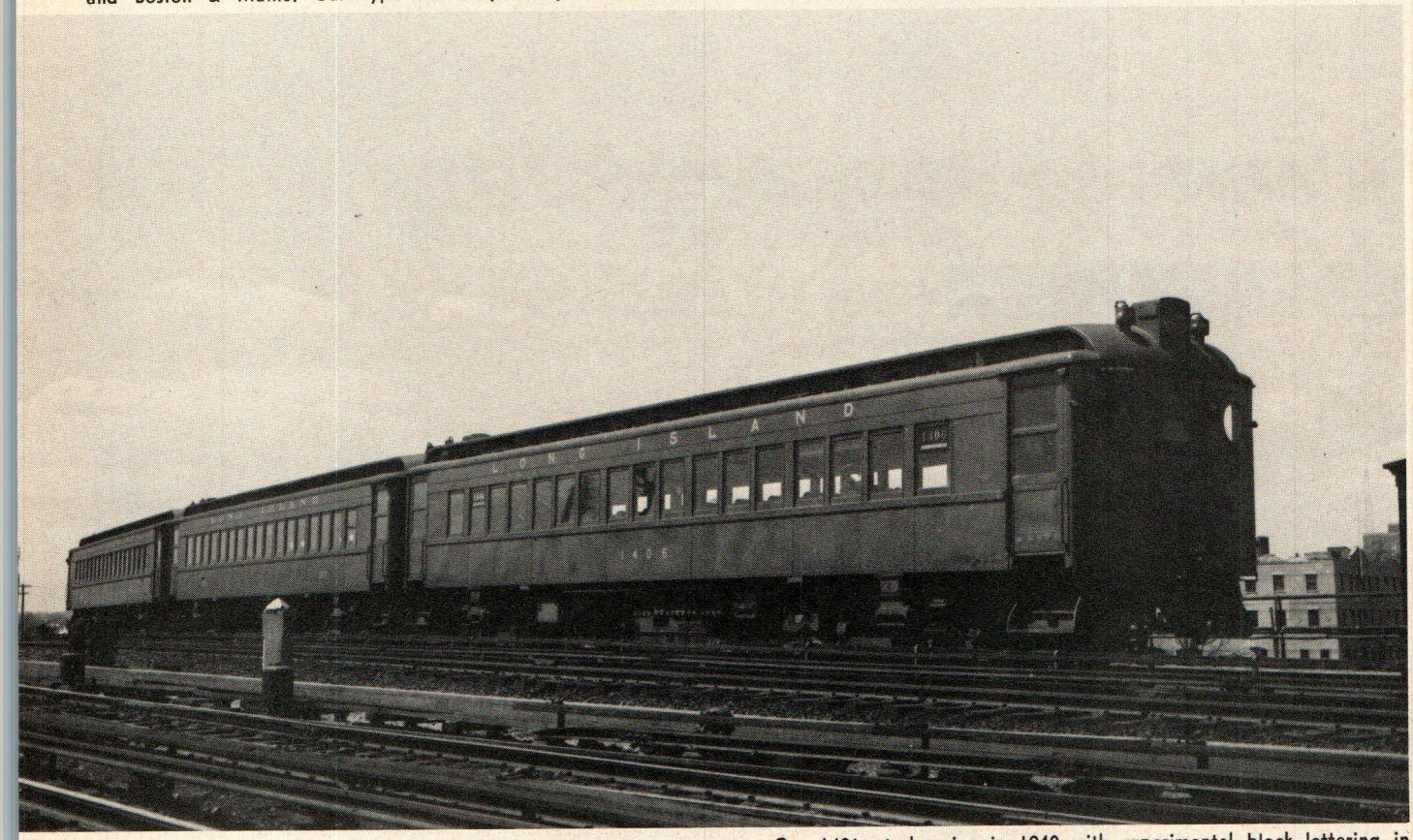




MU trailer coach 989 is fitted with very small and light passenger trucks. Similar coaches saw service on New York Central and Boston & Maine. Car type has very rarely been modeled.

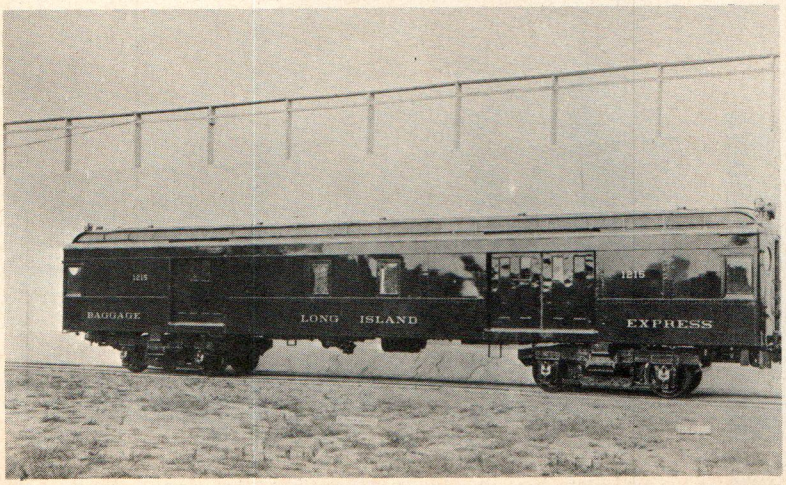


Although the lines are much the same, 1173 was one of the last monitor roof cars built prior to delivery of first double deckers.

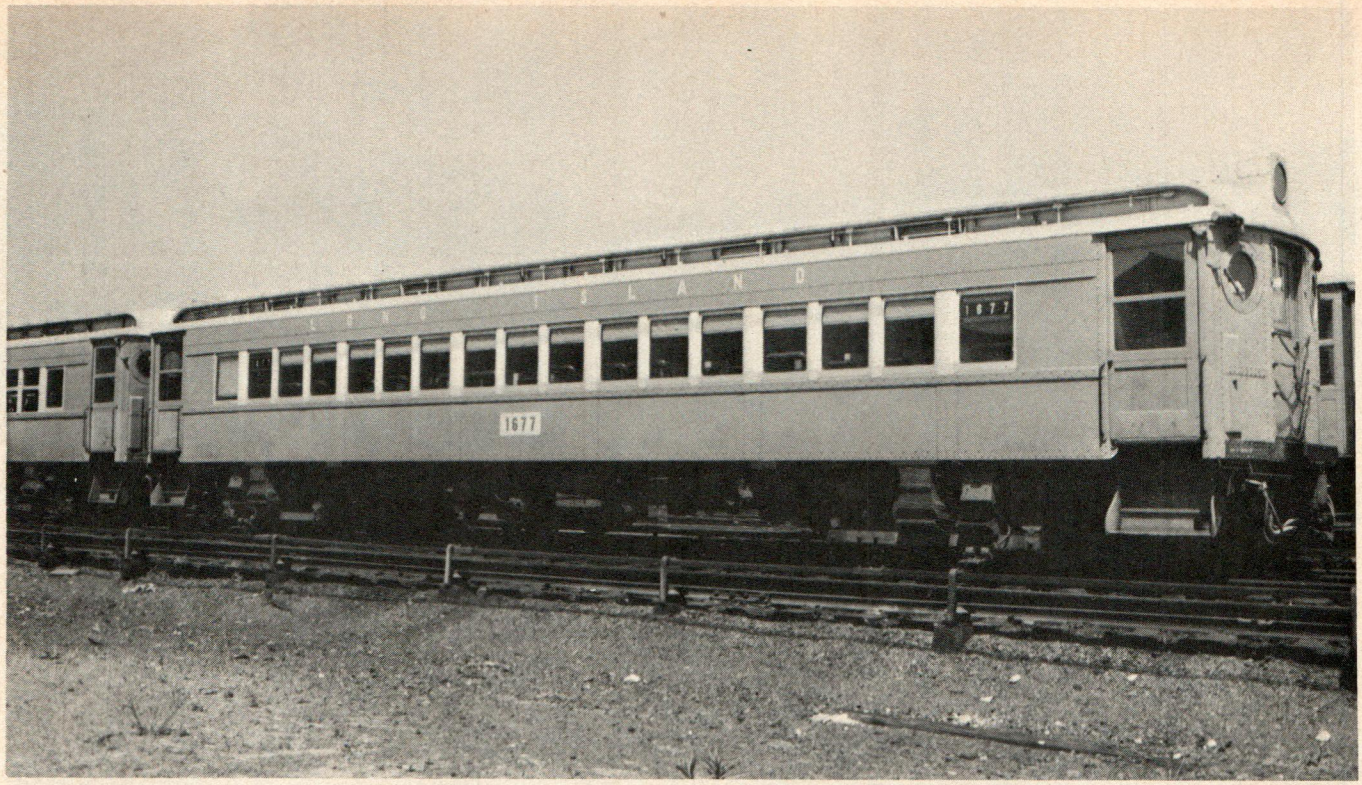


Baggage Express motor 1215 built by ACF and still in operation in 1965. Strong ties with parent Pennsylvania Railroad gave LIRR equipment that Pennsy look until color scheme changes of 1940's.

Car 1406 at Jamaica in 1940 with experimental block lettering in gold on tuscan red body. LIRR retained Pennsy style lettering until post war receivership when new grey color scheme was adopted.

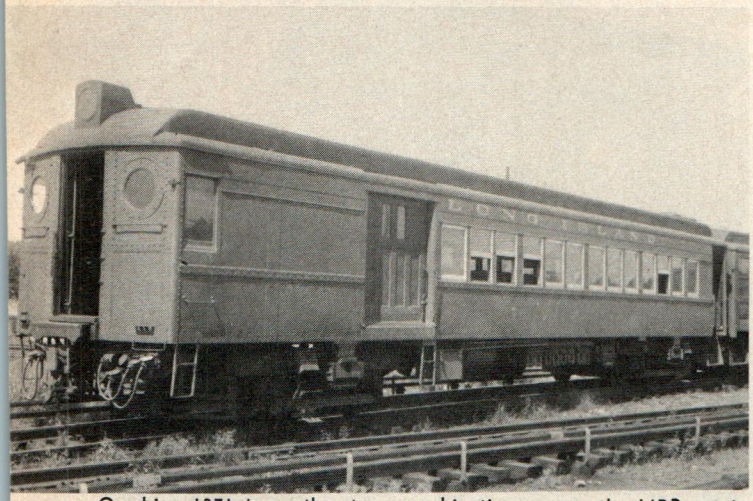


Baggage-RPO-Coach combine 1382 in tuscan red paint at Morris Park in 1940. Porthole windows were distinctive LIRR-PRR feature.

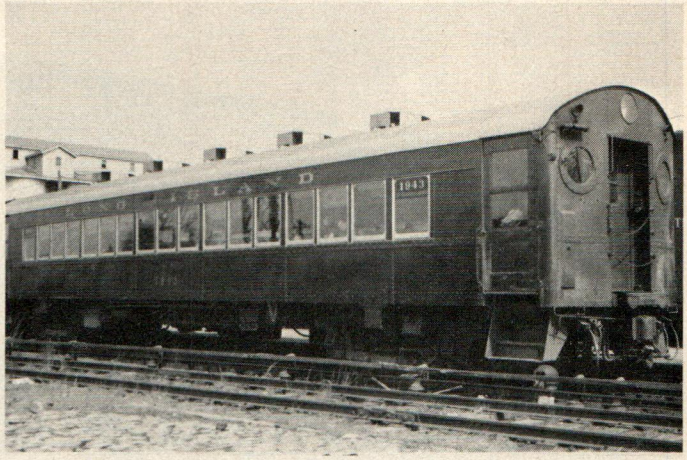


Part 1 showing steam and diesel locos appeared in RMC, April 1964, p. 36.

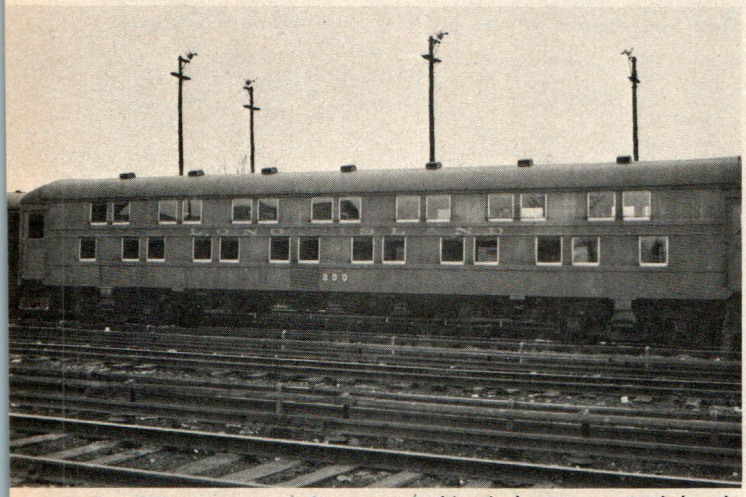
Club car 1677 fitted out with chairs is part of the Long Island's special service for those who can afford to pay for the finest in commutation service. Light grey color scheme adopted in 1940's.



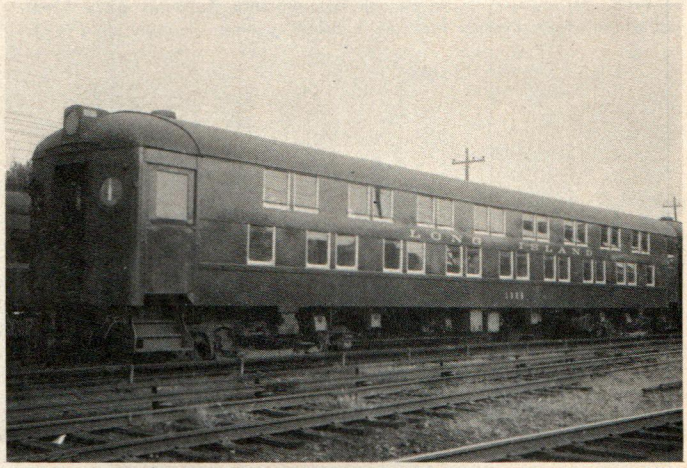
Combine 1371 is another type combination car on the LIRR retaining same basic design. Snapped at Babylon while in tuscan paint.



Distinctively Long Island is the road's fleet of arch roof, flat end multiple unit motors, trailers, and coaches. 1943 is an all coach MU decked out in tuscan red in 1951 at West Hempstead.



Car 200 was one of first two double deck cars received by the LIRR around 1940 and was an MU trailer. Shown in tuscan paint.



Success of first two double deckers led LIRR to order 50 more cars. Cars effectively increase train capacity on tracks operating near capacity during peak rush hours but do cost more.

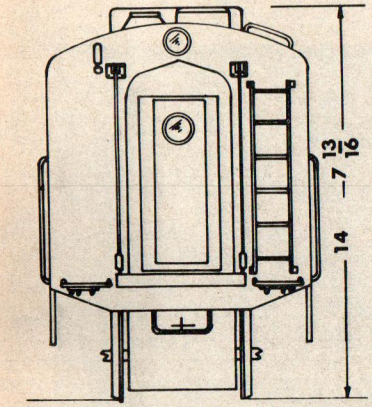
An attempt to eliminate engine changes in New Haven's New York-Boston runs led to development of Electro-Motive's type FL-9 having an unusual B-C wheel arrangement and the ability to pick up power from either third rail or its diesel unit.

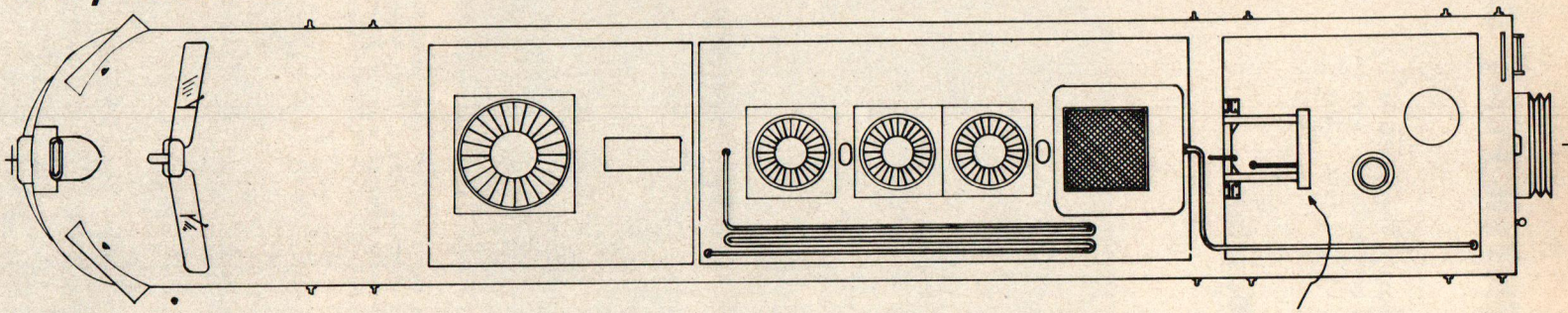
New Haven FL-9 units, with 2013 at the head end, creeps through Stamford, Conn., with a through express on January 11, 1959, following a wreck which tore down most of the catenary. Operating here under diesel power, FL-9 units run through to Grand Central Terminal the last miles on third rail trackage as electric locos.

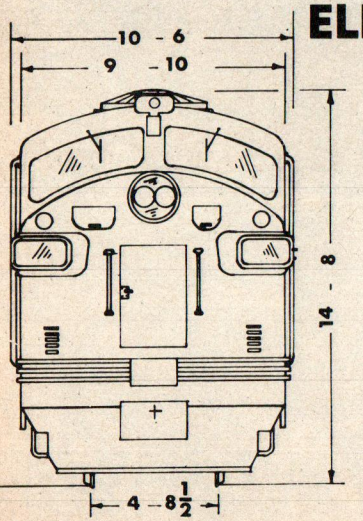
Photo by Don Wallworth

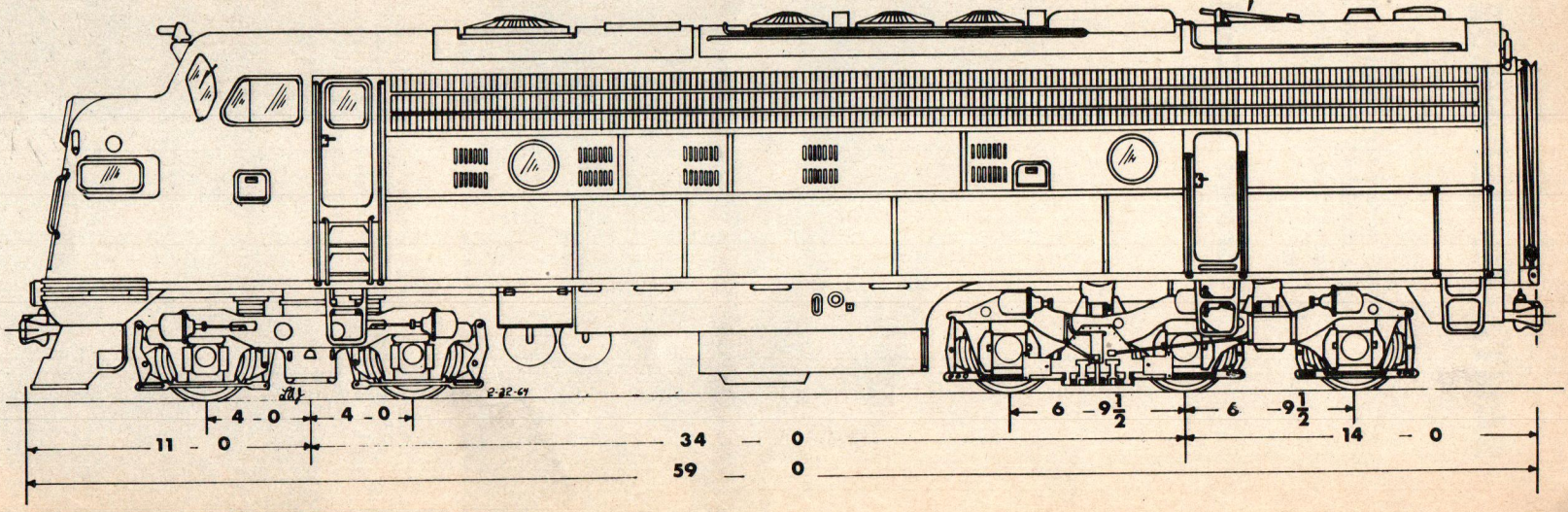
drawn by Larry Jackman

ELECTRO-MOTIVE FL-9 ELECTRIC AND DIESEL LOCO

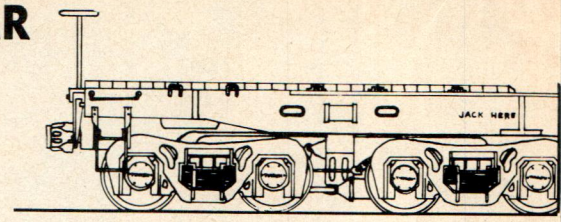






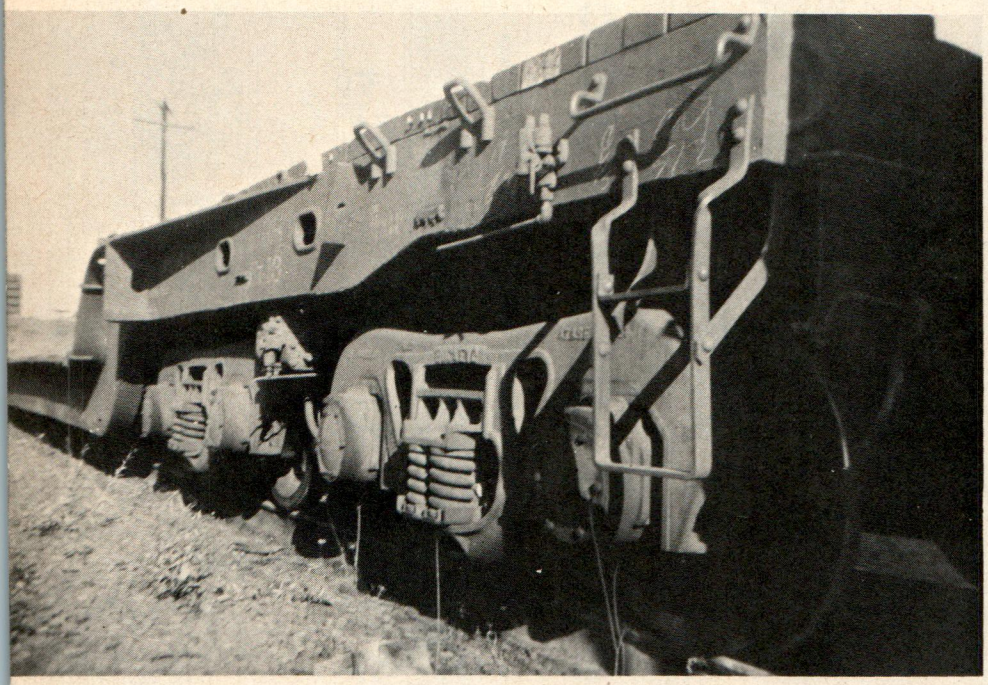


SANTA FE DEPRESSED CENTER FLAT CAR



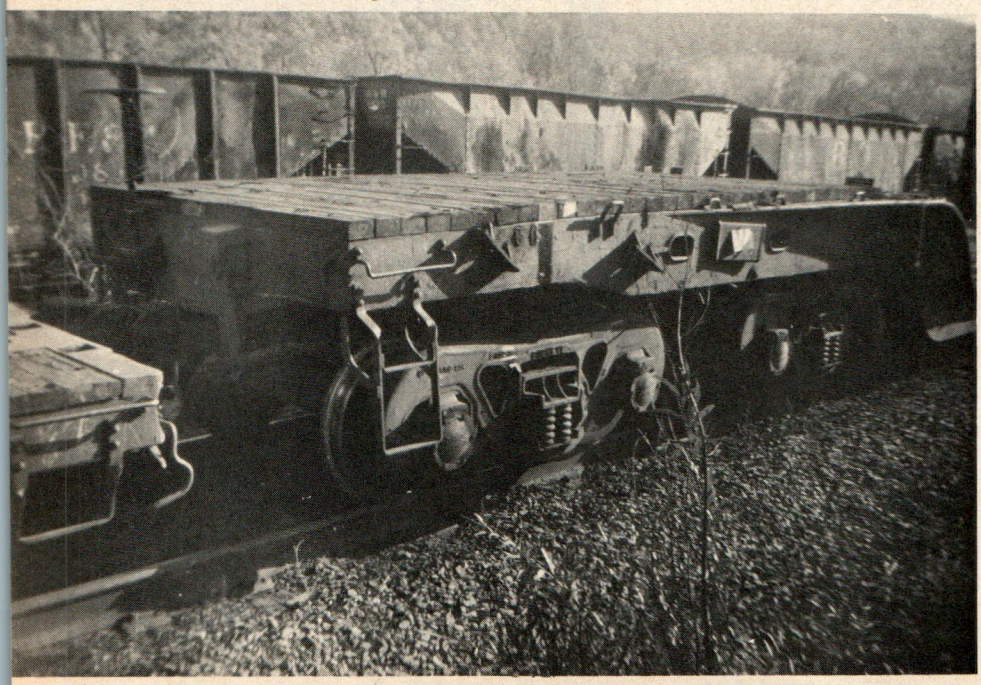
When extra heavy loads have to be moved, the Santa Fe uses a special 72 ft., 10 inch depressed center flat car with 16 wheels and a staggering capacity of 150 tons. Class Ft-13.

drawn by Craig T. Bossler



End and side details show in this view. Height of car ends compares strangely with regular flat car at left. Swing brackets on end accomodates brake line when car negotiates curves.

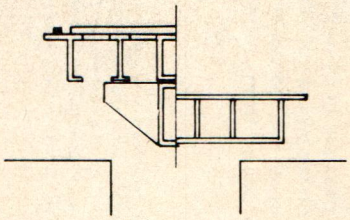
Low angle view shows Timken equipped Buckeye trucks mounted in pairs. Triple valve is mounted between trucks so as not to interfere with operation. Sister car 90015 has friction trucks.

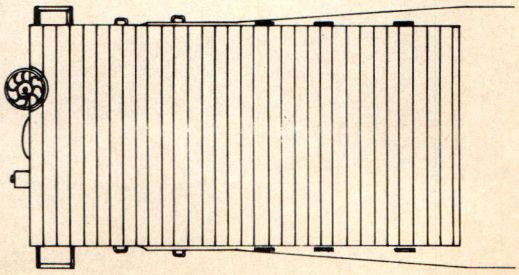


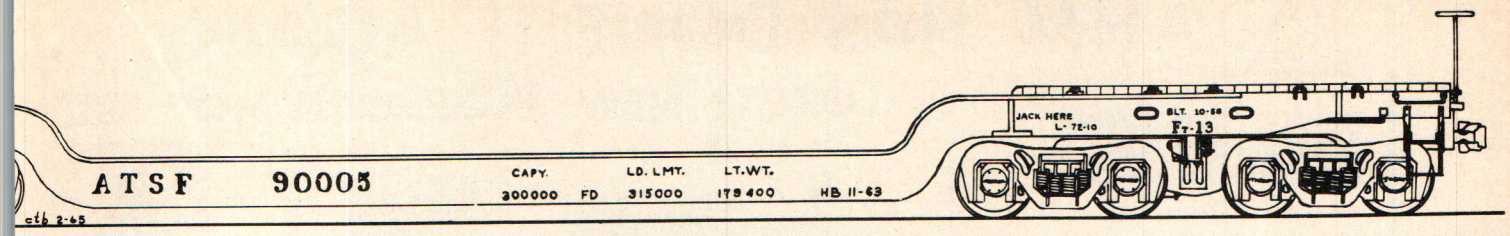
ONE OF the least seen modern American freight cars is by far this huge depressed center flat car. Only the largest Class One railroads have them and then only one or two in most cases. ATSF 90005 was built in October 1958 and is one of two such cars on the Santa Fe. A similar car numbered 90015 differs in various minor dimensions and is equipped with conventional friction bearing trucks.

ATSF 90005 measures a whopping 72' 10" overall. The loading platform is also unusually large being 30' 0" long at 2' 6" above the rail. This monster has the startlingly capacity of 150 tons. Truck centerlines are 53' 0" between the eight wheel assemblies and 10' 0" between each four wheel truck at each end. The load may equal the load limit figure of 315,000 lbs. provided it is supported on two crossbearers each side of center line (longitudinally) and not less than 10' 0" on each side of center line (laterally).

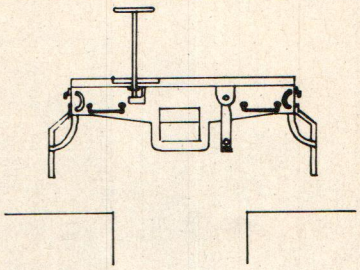
These cars (ATSF 90005 and ATSF 90015) exceed the dimensions as given on Association of American Railroads Mechanical Division Plates "C" and "C-1."

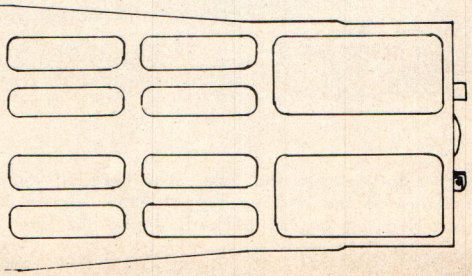






Three quarter length view of the ATSF car portrays its huge dimensions of 72'10". The car has a capacity of 150 tons. Paint is tuscan.



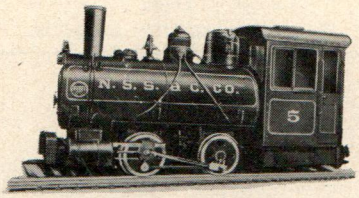


AHM HAS DONE IT AGAIN . . .

. . . GREAT NEW MINITRAINS HO^N NARROW GAUGE

DOUBLE YOUR INTEREST, DOUBLE YOUR FUN . . . ON YOUR HO LAYOUT

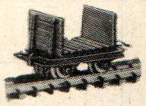
At last! HO Scale Narrow Gauge, ready-to-run, at lunch money prices! All American prototypes. Ideal for a mine, lumber camp, or dock scene in your HO Standard Gauge layout. Or build a new layout (as small as 16" by 16") for these little HO jewels. Developed and tested over three years, they set new highs for dependability, performance, and fidelity to HO scale. The locos feature all-wheel drive, five pole motor, and accurate detail. Either will pull 40, 50, 75 (we've even heard of 100!) of our cars. All cars have steel wheels and automatic couplers.



0-4-0 Baldwin Steam Loco (#3011) $6.95
12-ton steam loco used by Portland Cement Co., Franklin Sugar Refining, and others for hauling coal, gravel, and other materials to plants, between operations, or to main lines.

0-4-0 Plymouth Diesel JDT (#3001) $5.95
14-ton diesel made by Plymouth Locomotive Works. Mainly used for plant switching, mining, lumber yards, tunnel construction, highways, and other large construction areas.

Mine Car (#3107) **98c**
With 1 straight track.



Pulpwood Car (#3105) **98c**
With 1 straight track.

Log Car (#3103) **98c**
With 1 straight track.

Coal Car (#3106) **98c**
With 1 straight track.

Dump Car (#3101) **98c**
1 straight track.

Trash Car (#3104) **98c**
1 straight track.

Cement Car (#3102) **98c**
1 straight track.

BUY SETS AND SAVE!

Minitrain sets give you the absolute most for your money. All sets include 12 curved sections, one straight, and one straight terminal track section.

3051 Diesel, 4 Cars, and Track, $9.98.
3052 Steam, 4 Cars, and Track, $10.98.
3055 Diesel, 10 Cars, and Track, $14.98.
3056 Steam, 8 Cars, and Track, $14.98.

All Items available September/October

MORE HO^N TO COME?
(You Better Believe It!)

TRACK 15c

#2101, 4" Straight 2½' (7@ 15c on card) **98c**
#2121, 7" Radius Curve (7@ 15c on card) **98c**
#2130, 4" Straight Term (12@ 35c in box) **$4.20**

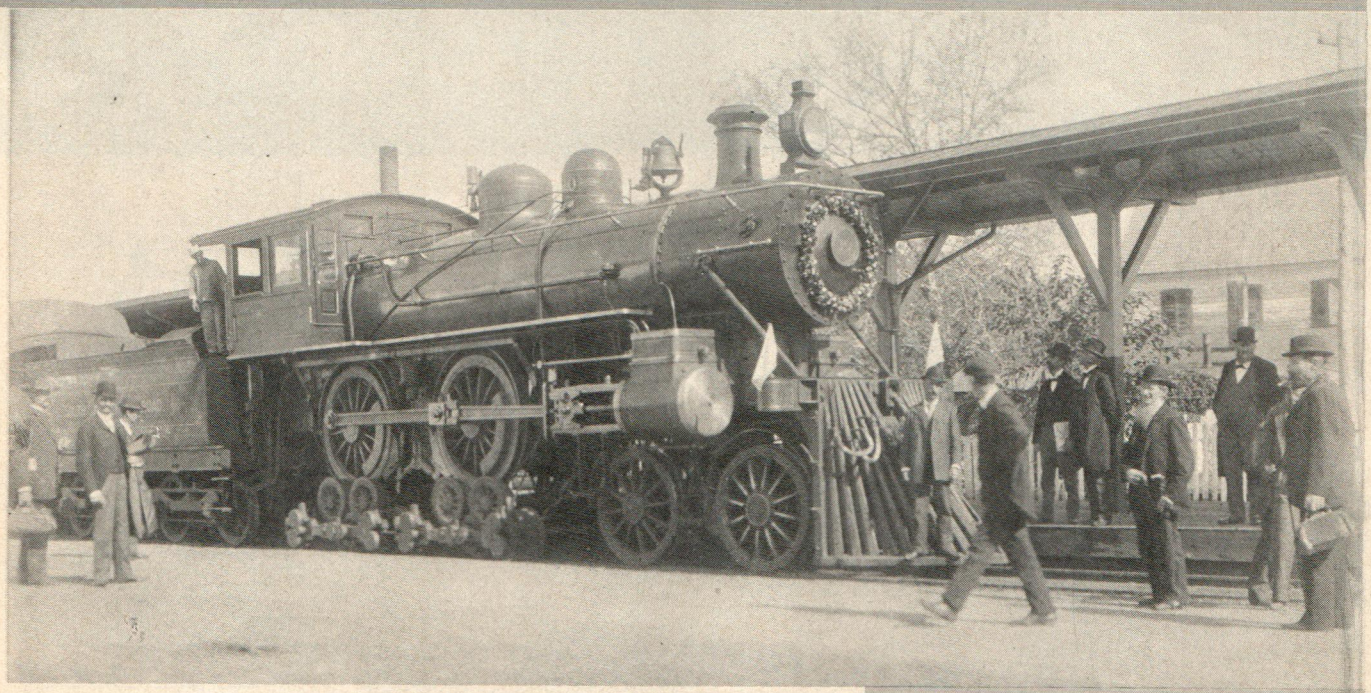
SPECIAL NOTICE

As pleased as we are that our new items have won such great acceptance from Model Railroaders, we must again apologize at not being able to produce them fast enough. We hope you understand, that you'll be patient, and that you'll place firm orders with deposits at your favorite AHM dealer in order to get early delivery on these magnificent units.

The HOLMAN Absurdity

Photos, collection of Eric LaNal

If model railroading has had its share of flying saucer cars, cold steam experiments, and hoop and hook couplers; consider the crazy inventions tried out over the years by the real railroads.



Left side view of the trim, slim barreled American type engine mounted on the Holman gadget. Many equally odd inventions were also tried out on the railroads during the late 19th century.

(AND WE'LL KEEP IT UP, TOO!)

INTRODUCING NEW ITEMS EVERY DAY FOR MODEL RAILROADING!

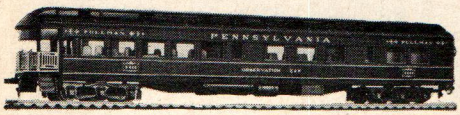
NEW DELUXE PASSENGER CARS
(You Asked For Them)

AHM continues its revolution in HO Gauge, ready-to-run cars. And these are beauties. Prices are low, quality and scale the highest ever. These full-length Standard Passenger Cars are exact scale!

- Oldtime "Fancy Painting."
- Completely decorated.
- Complete interiors.
- Exact scale length.
- Fully lighted.
- Steel wheels.
- Talgo trucks.

ONLY $6.98
(Observation $7.98)

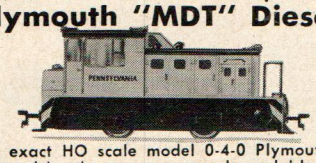
Cutaway of Observation Car shows kitchen, rest rooms, compartments, tables and chairs.



Available September
Santa Fe (Pennsylvania) Roadnames

6360 (6370):	Pullman	$6.98
6361 (6371):	Observation	$7.98
6362 (6372):	Baggage	$6.98
6363 (6373):	Diner	$6.98

NEW . . . ONLY $5.95! Plymouth "MDT" Diesel



This exact HO scale model 0-4-0 Plymouth is powered by the same proven dependable motor that powers the larger and more expensive F-M and BL-2 Diesels. Highly detailed, with operating headlight.

Available Roadnames:

5001	Pennsylvania
5002	Santa Fe
5003	Illinois Central
5004	Reading
5005	Union Pacific
5006	Baltimore & Ohio

NEW 99c RECORDS!

Now add sound to your enjoyment of model railroading with these remarkable, full fidelity monaural records. Choose from these 7", 33⅓ rpm compact albums . . . 99c:

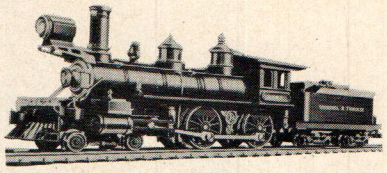
Iron Horse Rambles	#9501
Grand Trunk Western 6323	#9502
East Broad Top	#9503
Ride Down Memory Lane	#9504
Strasburg Railroad	#9505
Burlington 5632	#9506

Also available, two great 12" albums:

The T-1 Is King (#9521 Mono)	$4.98
The T-1 Is King (#9522 Stereo)	$5.98
Sounds of the Pennsy (#9523 Mono)	$6.98

New 1965 Catalogs! • Colorful Full-Line Catalog • Magnificent Thunder Line Train Set Catalog. Send 35c for both.

NEW . . . ONLY $18.95! 4-4-0 "Reno" Loco



Here it is . . . right out of the Westerns! The great new HO scale "Reno" locomotive, companion to the "Genoa." At $18.95, one of the most beautiful locos ever made. In highly-detailed plastic with brass parts. Operating headlight. Order now for prompt delivery.

#5010 ..... Virginia & Truckee

NEW PASSENGER CARS!

Now AHM adds an authentic new Diner to its great line of full length, HO scale Standard Passenger Cars from the Late Twenties. Plus . . . all cars are now offered in both Santa Fe and Pennsylvania Roadnames. Get yours today!

SANTA FE (PENNSYLVANIA)

6260 Pullman (6270)	$3.50
6261 Observation (6271)	$3.98
6262 Baggage (6272)	$3.50
6263 Diner (6273)	$3.50

MAIL ORDERS

Try your AHM Dealer first. If he cannot supply items, send his name and address with your order. On orders of less than $3.00, add 50c handling charge.

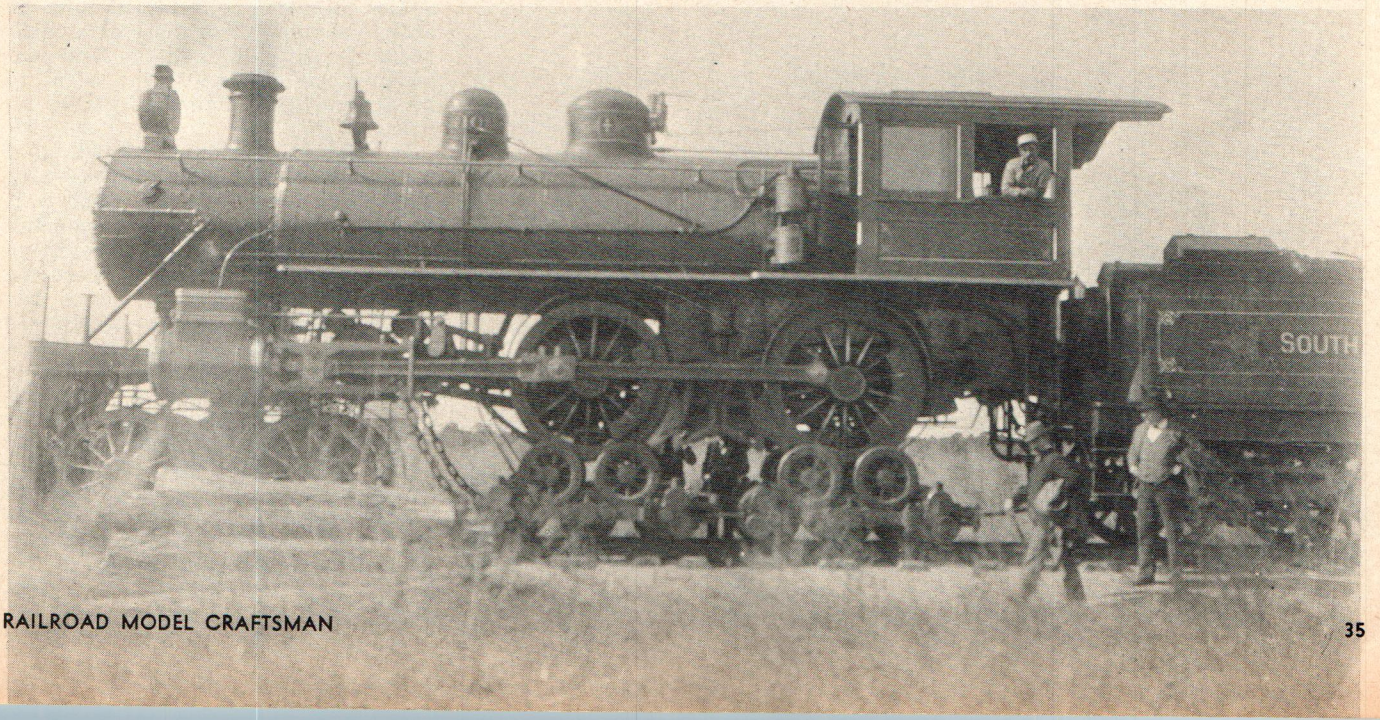
Associated Hobby Manufacturers, Inc.
3214 N. Boudinot St., Philadelphia 34, Pa.

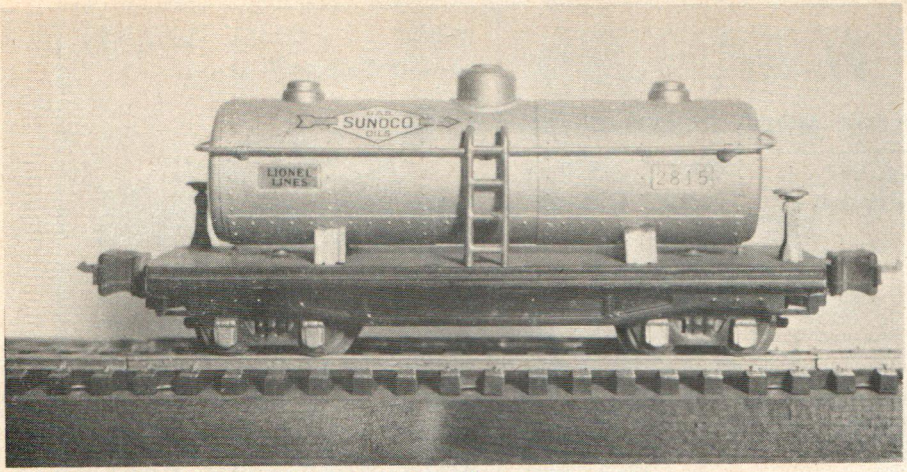
TECHNOLOGICAL progress being what it is, not every heralded invention is a roaring success. Some inventions might even have been better off never to have seen the light of day.

Back in the 1870's and 1880's when the railroads were having their great spurt as builder of the nation, many inventors tried their hands at making railroad travel even better. Many of these inventors were dedicated men who did much to advance railroading, men like Westinghouse and Forney, Sprague and Wagner and Pullman. There were also crazy schemes which sounded plausible but like as not were merely means of raising money through issuance of stock.

One idea common to the period was the concept that a giant wheel could make smaller wheels run faster. An inventor named Holman was one of several who felt sure this idea would work. After tests on the Soo Line, he arranged with Baldwin to convert a new 4-4-0 being built for the South Jersey Railroad to his system. The photos show the engine and three cars during the day of the big test. This is one prototype idea we don't recommend for modeling!

Right side view of South Jersey 4-4-0 No. 10, newly arrived from Baldwin and ready for a running test of Holman's many wheeled invention.

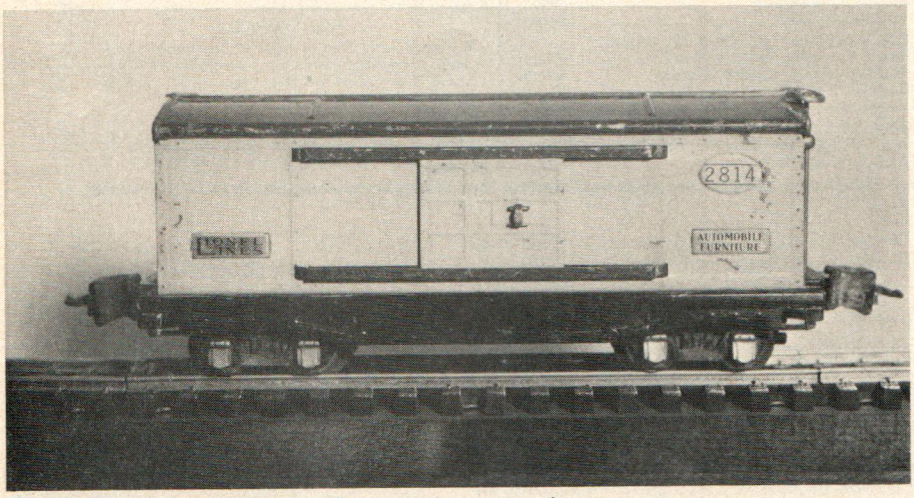




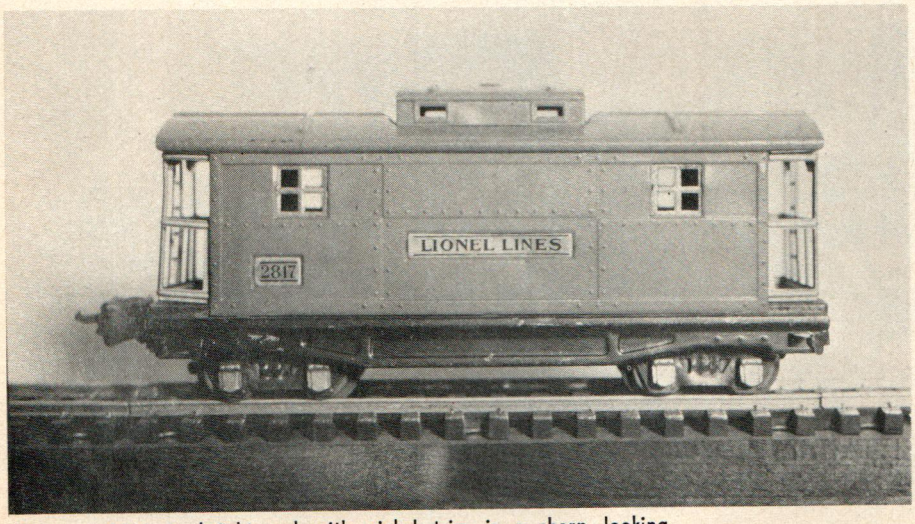
Tank Car 2815 is found in both the aluminum Sunoco color and in orange with Shell decals and special lettering but no plates.

LIONEL SERIES 650-2650-2810 FREIGHT CARS

Lionel's 803 series led to the later 650 8-wheel cars which in turn were joined by the automatic coupler 2650 series and the larger 2800 series, companions to the 810 series.



Sliding doors on the 2814 Box Car were large enough to permit loading. Colors included cream and maroon, tuscan with RS letters.



Caboose 2817 in bright red with nickel trim is a sharp looking car but many collectors prefer later red car with brown roof.

IN 1935, LIONEL'S 803 series 4-wheeled O gauge freight cars were unceremoniously replaced with a new 650 series of small sized double truck or 8-wheeled cars. These were the No. 651 Flat Car, 652 Gondola, 653 Coal Car, 654 Oil Car, 655 Box Car, 657 Caboose, and 659 Dump Car. Measuring 6¾" in length, the cars utilized the same bodies as the earlier 803 series freight cars and duplicated the earlier line exactly as to car types. This new series would continue in the Lionel lineup until 1942.

About 1937, a new box coupler was introduced initially on the more expensive O gauge lines with the standard latch coupler continuing on the lower priced O gauge sets and on the entire remaining Standard Gauge line. The new box coupler provided near perfect automatic coupling and was easier to operate than the earlier latch coupler, with which it mated.

With introduction of the automatic box coupler in 1938, two new series of Lionel freight cars were added to the line. These were designated as the 2600 and 2800 series, deluxe versions of the latch or box coupler equipped 650 and 810 series cars. All four series of cars continued in the line until the 1942 catalog, when war halted all train production.

There were a number of minor variations between early and late versions of the cars in the various series. Copper trim of the early cars gave way to nickel trim during the late 1930's, followed by the use of more realistic railroad colors and black journals during the early 1940's, possibly because of chrome and brass shortages. We've attempted to illustrate this article with examples of different paint and lettering schemes. It should be noted that while most of the colors found on 2650 and 2810 series cars are duplicated in the 650 and 810 series, this is not wholly true. Some of the colors and lettering used on 2650 and 2810 series cars were never used on the two lower series cars.

The diligent collector should be able to acquire all of these cars without difficulty, although the heat-leaf lettered cars of the war years tend to be scarce and somewhat higher in price.

It should also be noted that throughout the entire 803-650-810-2650-2810 series, the collector will find a wide variety of color schemes, and variations in the style of lettering on brass and nickel plates. There are even variations to be seen in the truck styles between the early 810 and later 2810 series cars. Most collectors consider color variations as important. The number of variations in truck and coupler styles, chrome and brass trim, and plate lettering styles is so great that the average collector will content himself with one sample of each car in the different colors. Unless, of course, one is specializing in this entire series. The number of variations is just too great to collect them all.

Pump House At SMUTEYE

by Bill Baron

The pump house at Smuteye is a great warm weather project that'll squeeze into any small space in or around your terminal area.

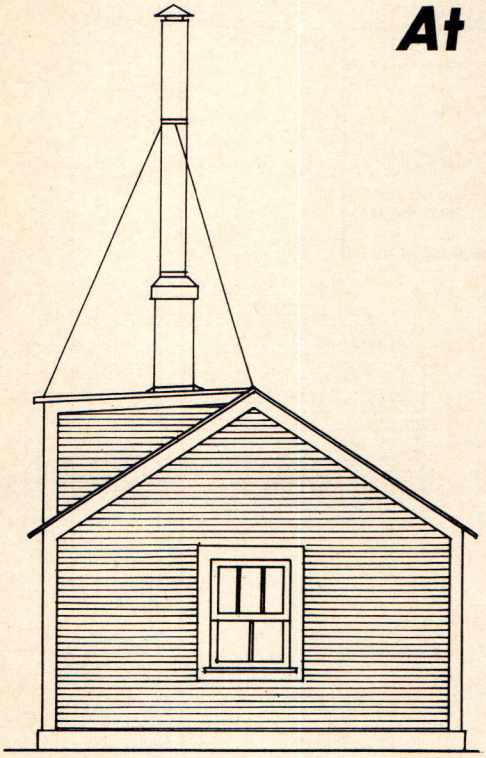


FIG. 1 NORTH ELEVATION

With roof sagging, the pump house at Smuteye gives evidence of a long hard life. Pump house could be used to service water tower or to provide steam for an engine or passenger term.

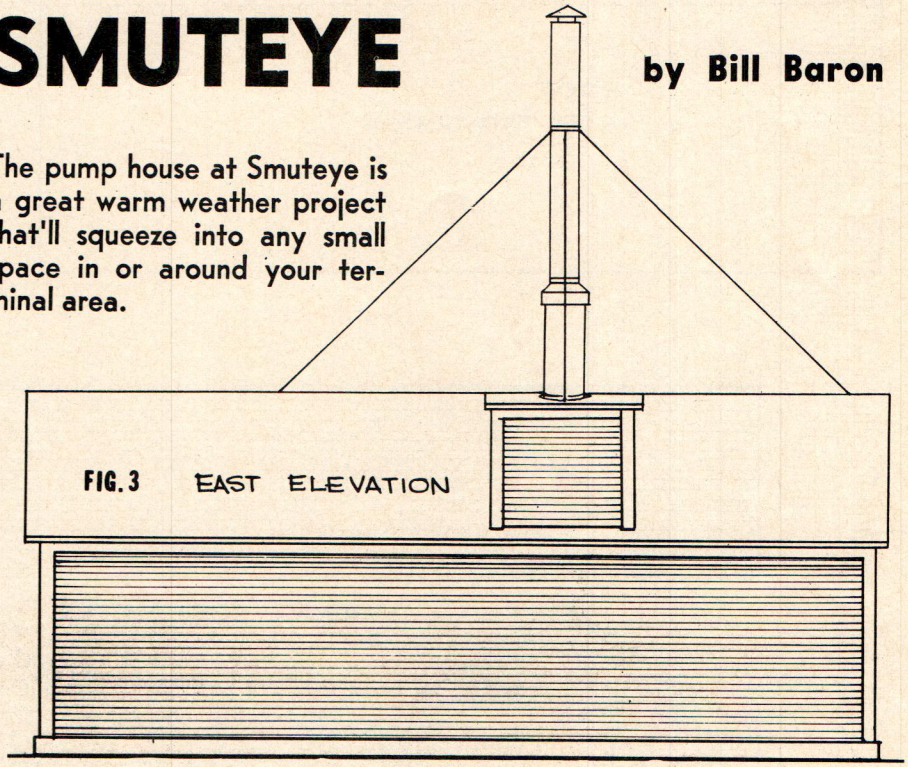


FIG. 3 EAST ELEVATION

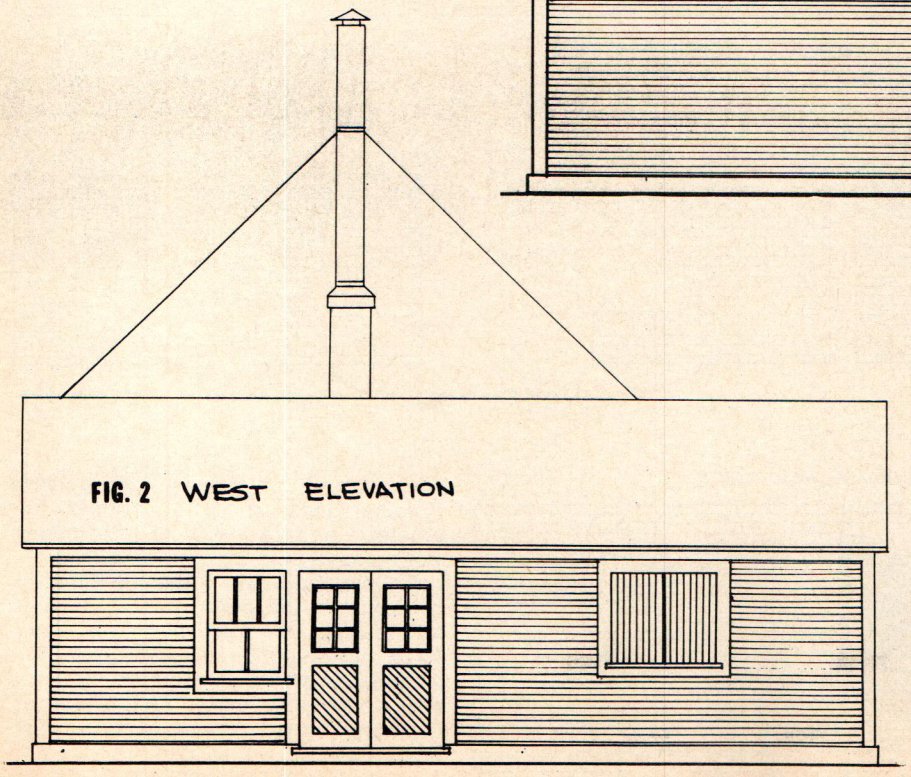
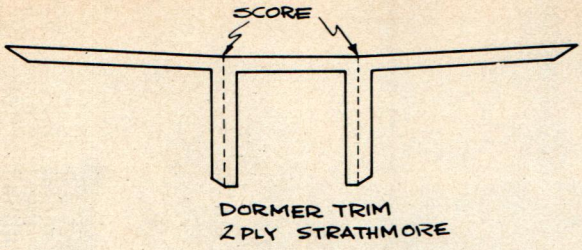


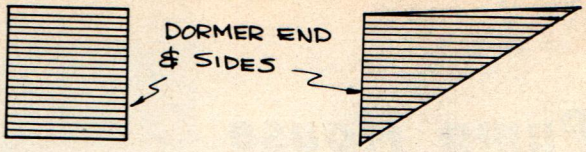
FIG. 2 WEST ELEVATION

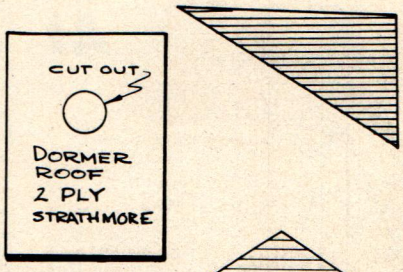
MANY PIKES have water towers or water columns in profusion but no evidence of how the water gets to them. I solved this problem by building this pump house. It's powered by a coal burning vertical stationary boiler.

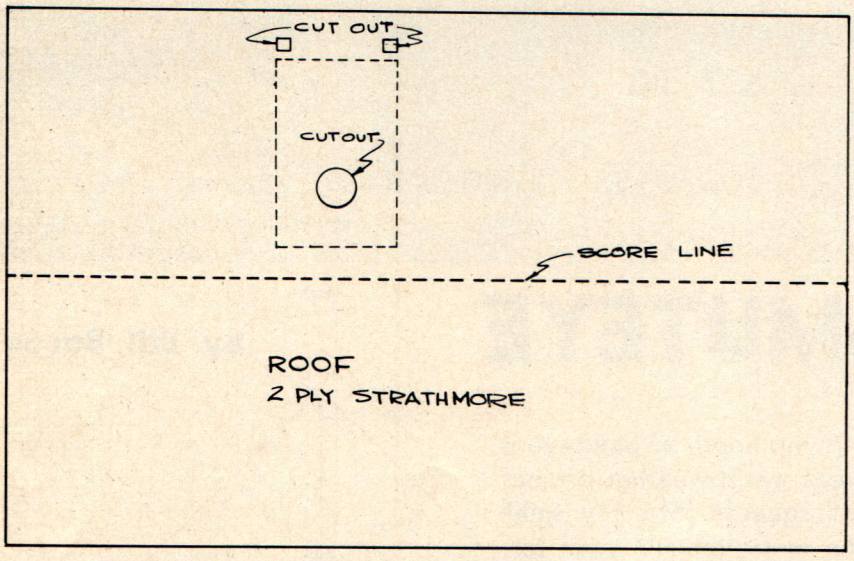
The tall stack on this pump house makes it a rather unique feature that may become overpowering in any yard scene. I tried to play it down by weathering the structure and placing it near an overgrown, weed infested spur in the Smuteye yard.

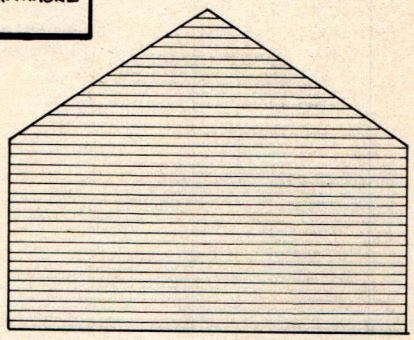
The structure is after a prototype I found in a book called "Railrad Structures and Estimates." I built it using odds and ends found in the scrap box: 1 ply and 2 ply Strathmore, 4" scribed siding, Acetate, 9"

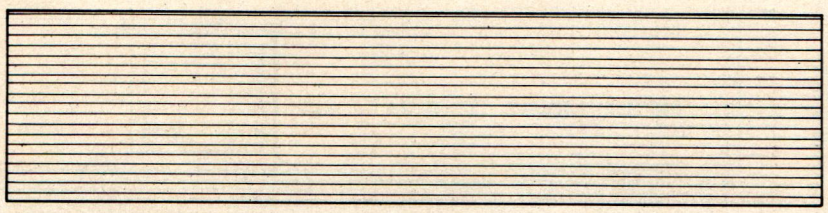


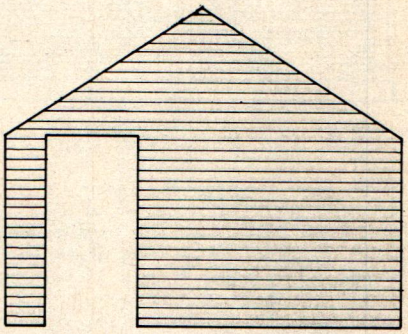


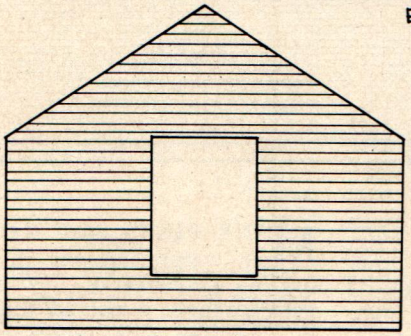


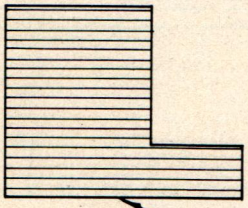












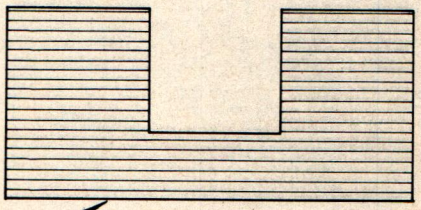
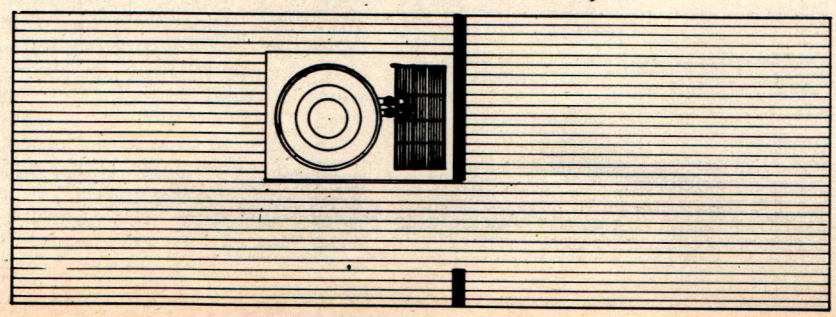


FIG. 4 FLOOR *(SHOWING BOILER PLACEMENT)*



square and 6" square Stripwood, Wooden Dowels of the proper diameter, and a vertical stationary boiler model.

Following is the order in which I constructed the pump house. Read it and study the drawings. You may have pet methods of your own for assembling structures that would surpass those used here. The intent of the steps stated is simply as a general guide as to how I did it.

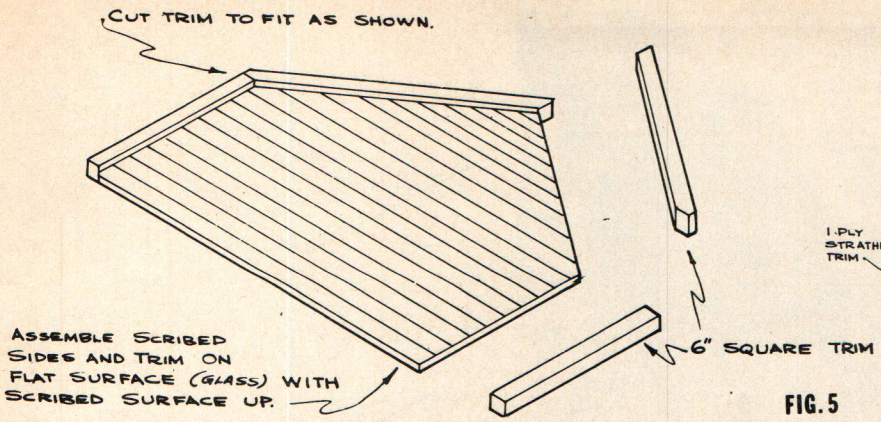


FIG. 5

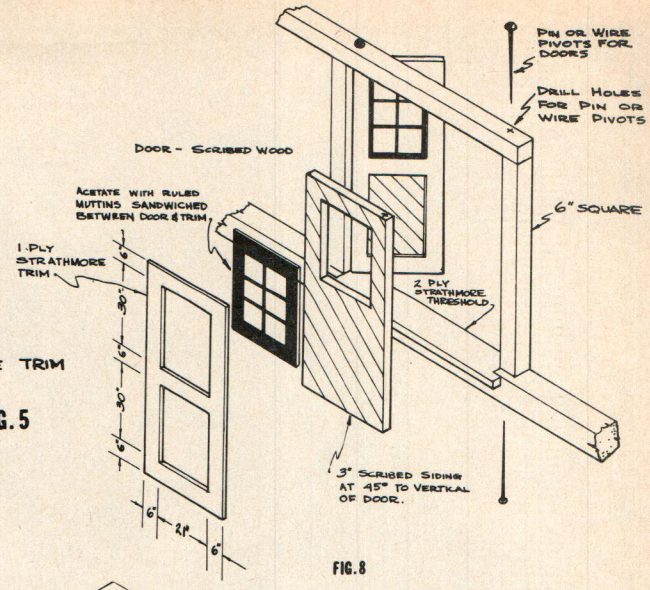


FIG. 8

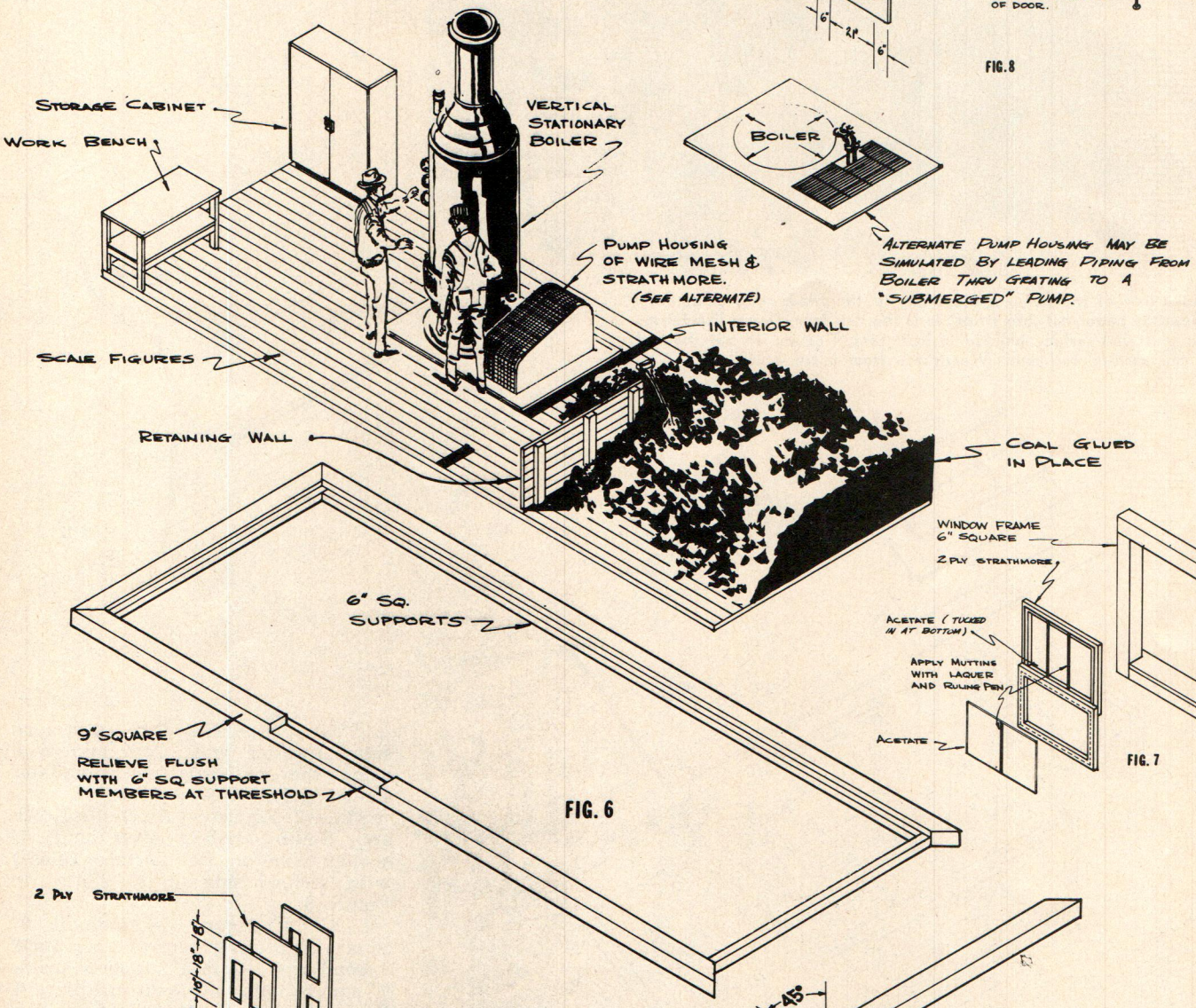


FIG. 7

FIG. 6

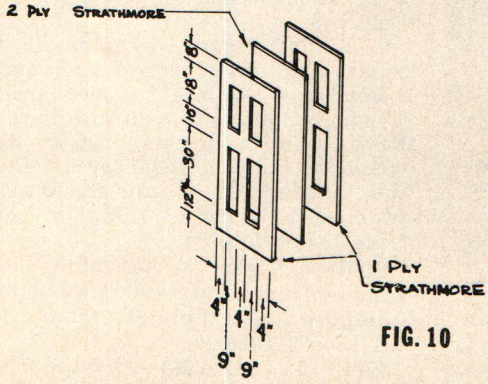


FIG. 10

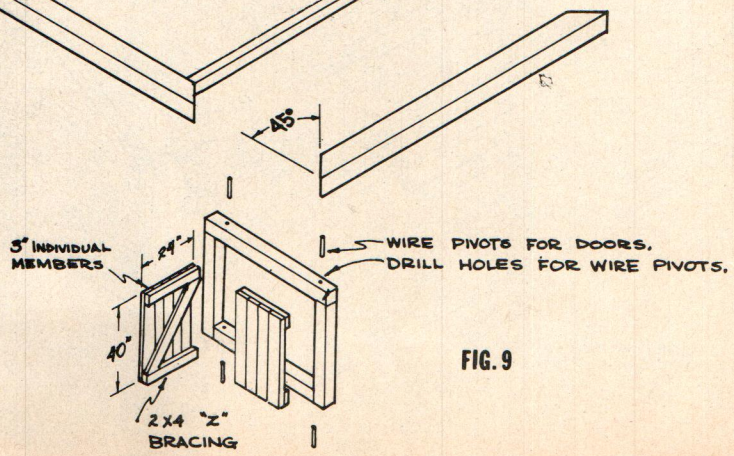
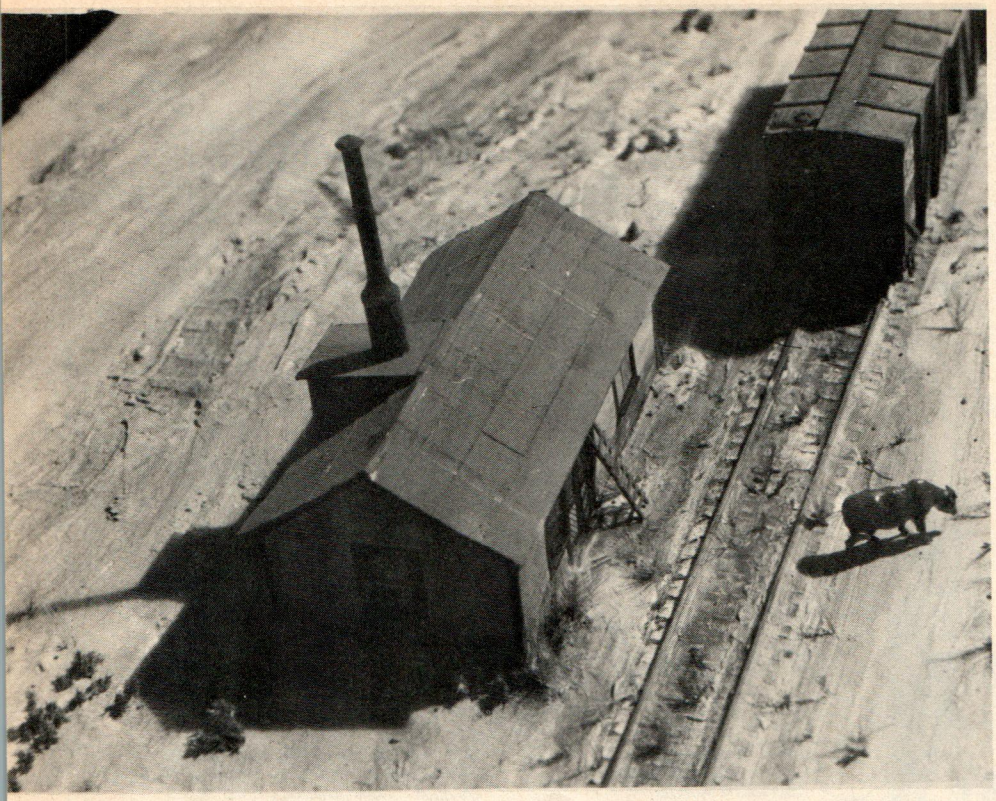


FIG. 9



Aerial view of the pump house shows its tar paper roof, made from typewriter paper cut into strips, as is the cap trim. Desert-like terrain is a plastered surface painted in light tans. Ties are all but covered by the hard-packed mud. Weeds are from brush bristles.

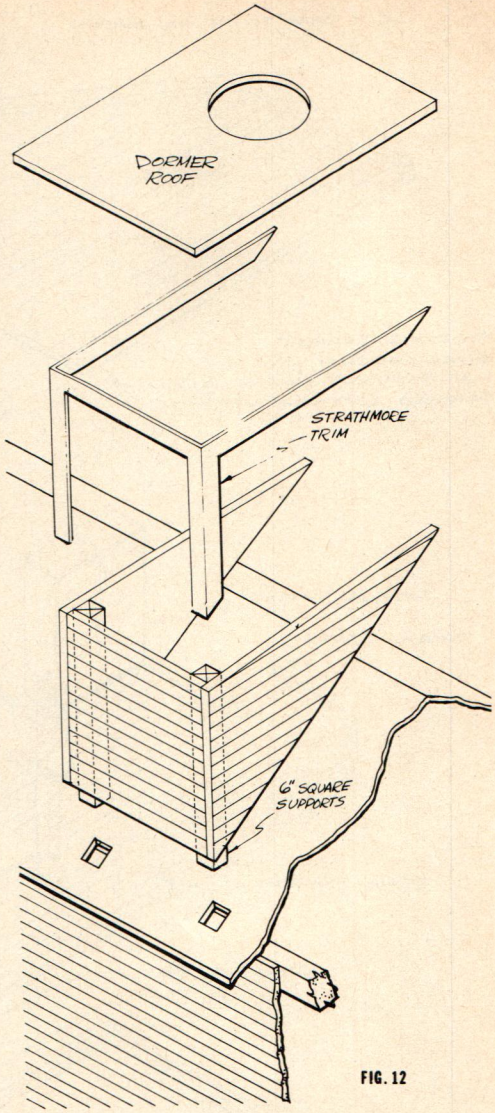


FIG. 12

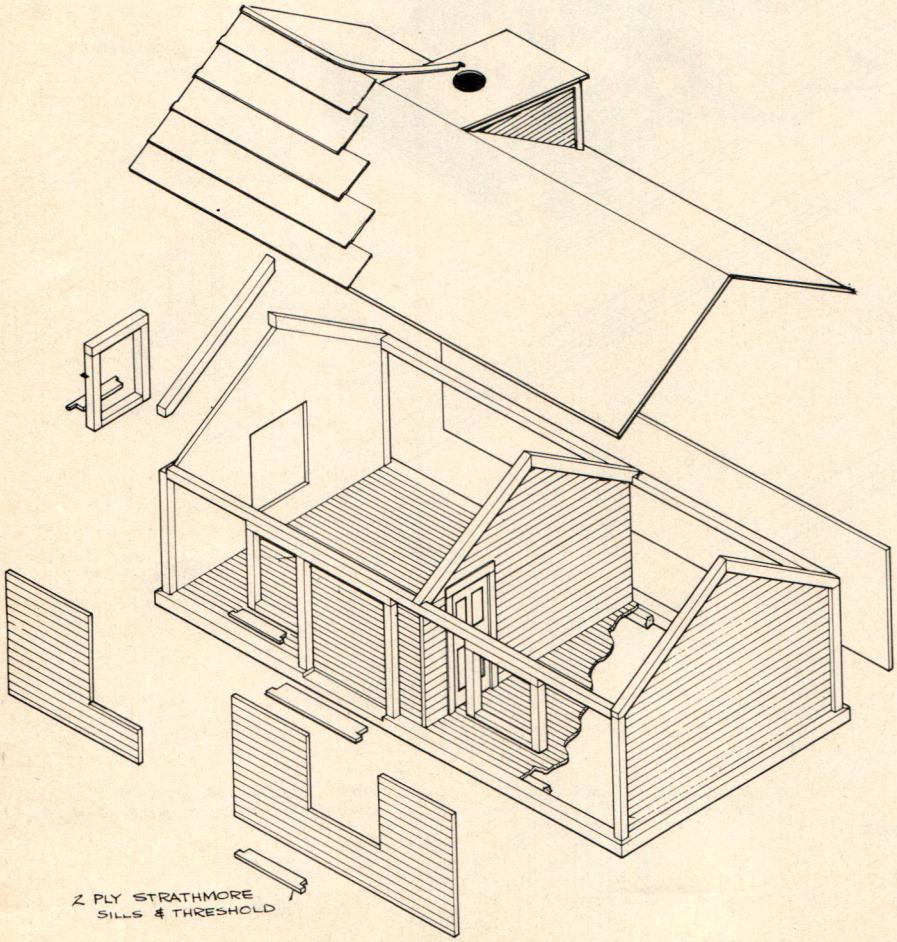


FIG. 11

STEP 1: Figure 4—Cut out scribed sides, interior wall, roof and trim using the materials and templates shown in Figure 4.

STEP 2: Figure 5—Assemble North and South scribed sides and 6" square trim on flat surface (glass) with scribed side up as shown in Figure 5.

STEP 3: Figure 6—Assemble 9" square trim using floor as a template. Assemble 6" square supports inside 9" square trim as shown in Figure 6. Fasten floor inside this "frame." This would be the best stage for detailing the interior. Use 2 ply Strathmore fastened to floor to stimulate concrete boiler footing.

STEP 4: Figure 7—Assemble North window frame and window as shown in Figure 7. Use 2 ply Strathmore for sill (See Figure 11).

STEP 5: Figure 8—Assemble West window and doors as shown in Figure 8. Use 6" square for framing. Use 2 ply Strathmore for sill and thres-

Late afternoon sun shows the weeds surrounding the pump house, as well as the other small shacks in the area. Some of the weeds grow between the rails but should not be tough enough to interfere with movement of cars if the siding or track is still to be serviceable.

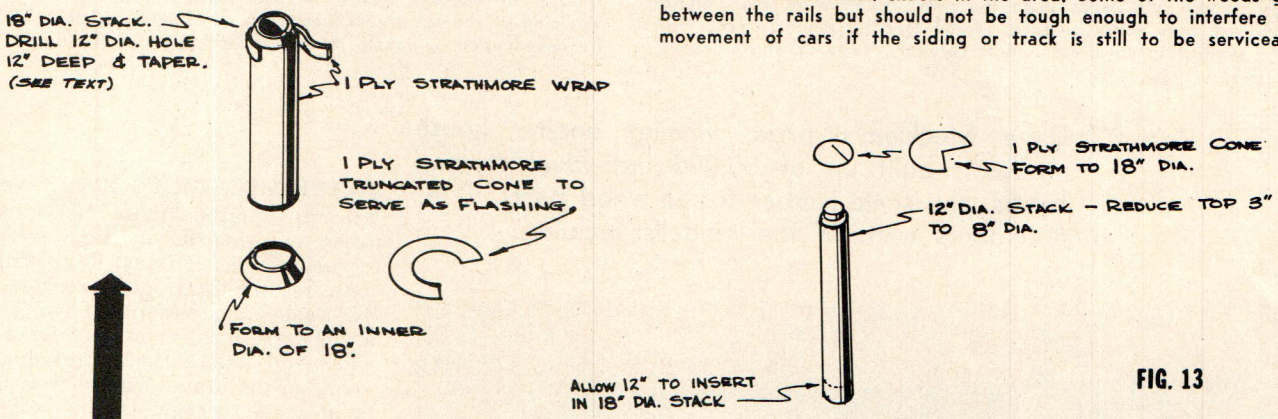


FIG. 13

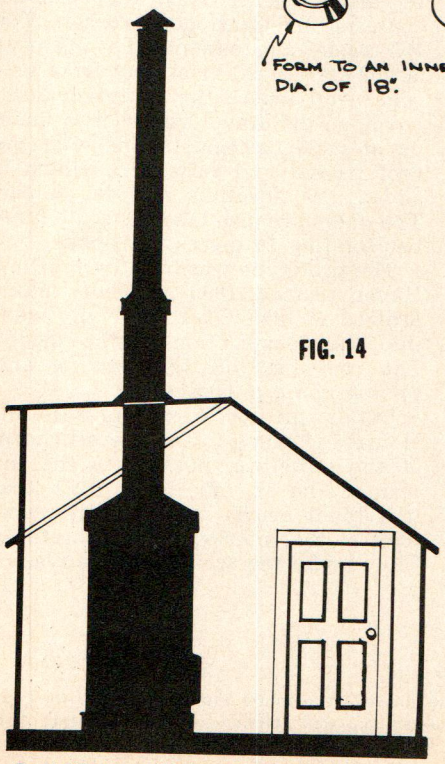


FIG. 14

hold. (See Figure 11).

STEP 6: Figure 9—Assemble coal chute doors as shown in Figure 9. Use 6" square for framing and 2 ply Strathmore for sill. (Shown in Figure 11).

STEP 7: Figure 10—Assemble interior door as shown in Figure 10. Use pin heads for door knobs. Use 6" square trim for door framing in interior wall. Insert door with pin hinge method shown in Figure 9.

STEP 8: Figure 11—Assemble all parts made up to this time (except roof) in the manner shown in Figure 11. Place and trim interior wall as shown.

STEP 9: Figure 12—Assemble roof and dormer as shown in Figure 11 and 12. Attach roof assembly to building. Use typewriter bond paper to stimulate tar paper and cap trim.

STEP 10: Figure 13 and 14—Assemble stack as shown in Figure 13. Refer to Figure 14. It shows a section through the interior. Insert stack into dormer and apply flashing.

STEP 11: Paint pump house in two tone color scheme. (Dark brown trim, light brown sides). Paint roof and stack dark gray.

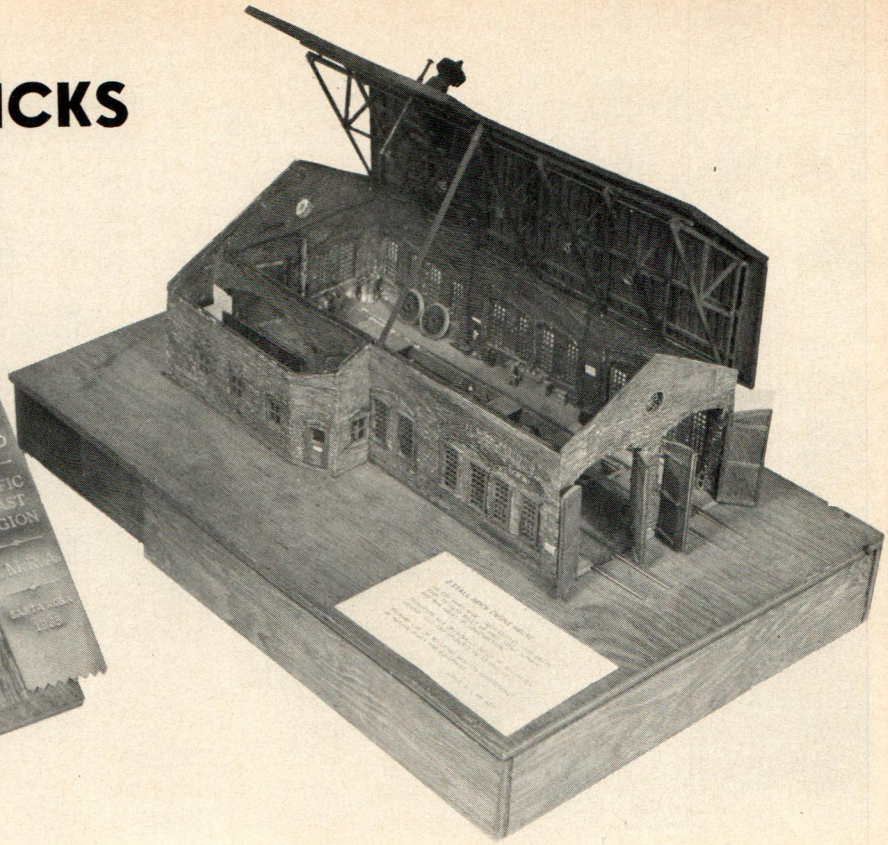
STEP 12: Place pump house on your pike sufficient distance from water tower and 9 scale feet from the nearest rail.

While the many parts shown may seem overly complicated for so small a structure, construction is not at all difficult. The builder will find that construction of a pump house such as described here, a relatively easy project, makes future projects using the same basic construction techniques, just as easy—and fun.

INDIVIDUAL BRICKS

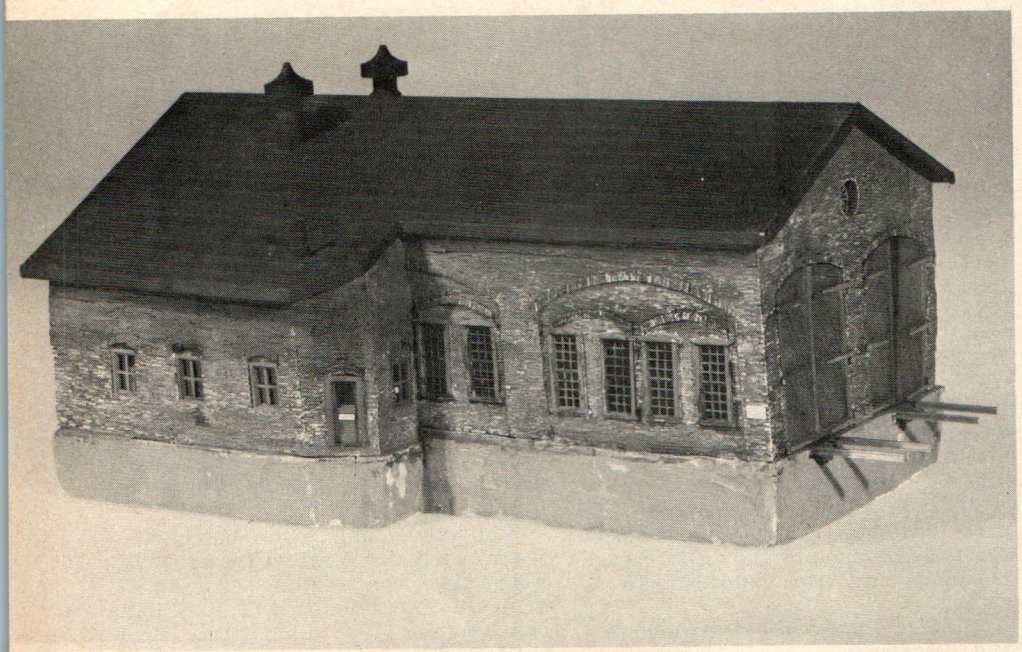
by David R. Mecklem

Dave displays the model with the roof lifted up so that interior detail can more easily be seen. Model took 1st place in 1965 PCR model contest in novice structures category, copping above trophy.



Interior of engine terminal includes basic items needed in daily servicing of the few steam locomotives a structure of this size would be called upon to handle. Brick interior is part of the detail.

Dave Mecklem's prize winning engine house model is built up of 50,000 individual styrene bricks, plus scale lumber for all wood parts. Over 800 hours went in the model's building.



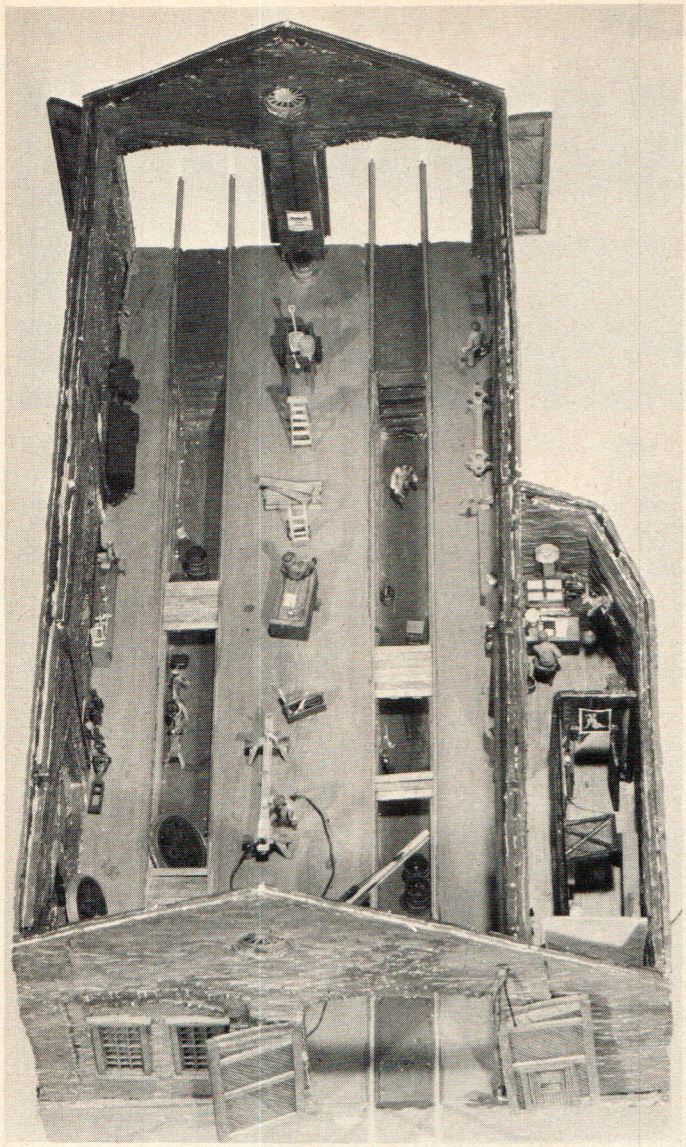
Prototype of model is a structure built by the New York, New Haven & Hartford around 1890 and modernized about 1940. 50,000 individual styrene bricks were used in construction for unique effect.

DAVE MECKLEM'S New Haven 2-stall engine house has already taken two awards on the west coast in various Pacific Coast Region model contests, and with good reason. The HO model was assembled using over 50,000 scale sized bricks cut from styrene. And where the prototype used wood, so did Dave. The roof is made up of scale lumber starting with the roof trusses and rafters, to which is added the sheeting and tar paper. The doors are also made of scale lumber totaling 16 pieces per door.

The prototype was built by the New Haven around 1890, and was modernized in 1940. Over 800 hours went into the construction of the model. The roof lifts off for viewing and photographic purposes.

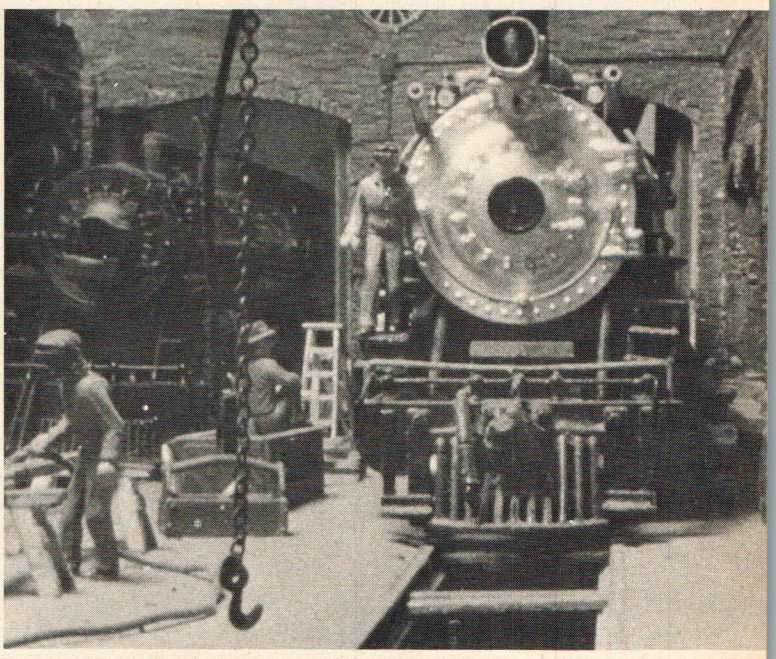
Detail parts by Weston and Rollins House add much to the overall charm of the structure, notably to the interior. And if you don't think that individual bricks make a difference, look at the interior photos carefully. They make the scenes come alive.

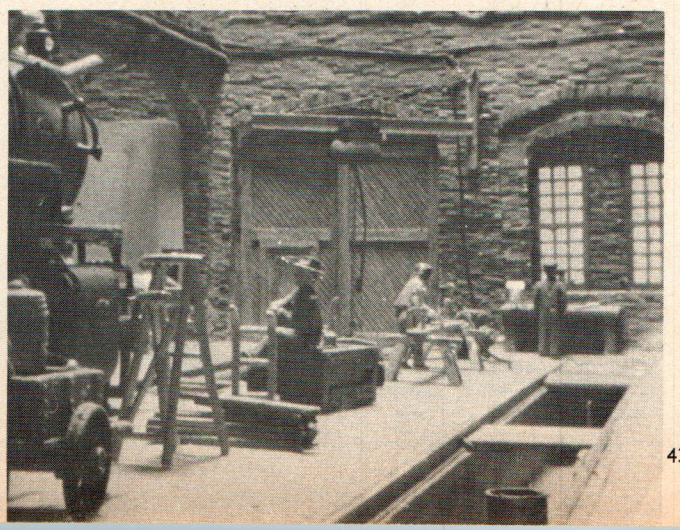
The el of the building houses a complete shop office with desk, pot bellied stove, moosehead on wall, clock, and other detail. Parts come from Weston, Rollins House Miniatures, other suppliers.



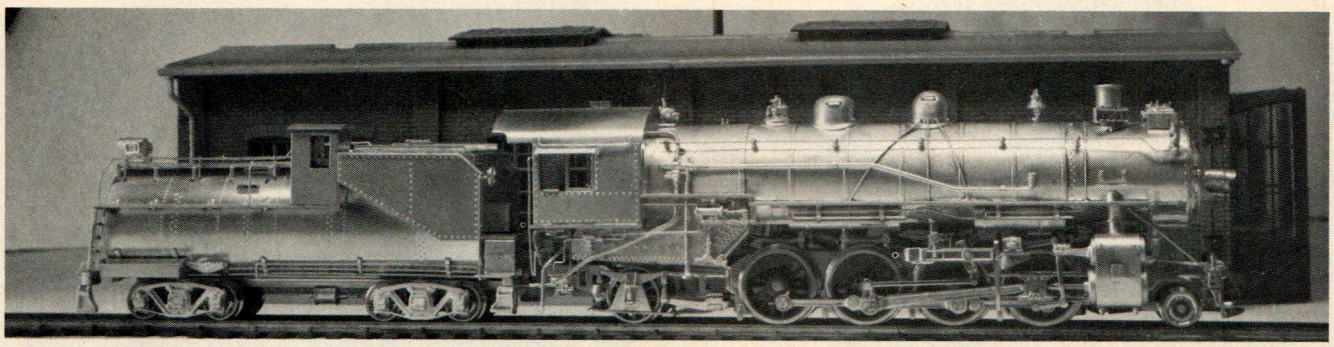
Specially built 35mm. camera with f:100 lens opening provides extreme depth of field at distances down to as close as two inches. Engine houses often came with dirt floor; were dark and dank.

Interior views, below, reveal loads of interesting engine house activity, with the brick work in the walls providing unusual relief. Track pits are common to locomotive, car, and trolley shops.





LOCO BUILDERS PHOTO—217 2-8-2

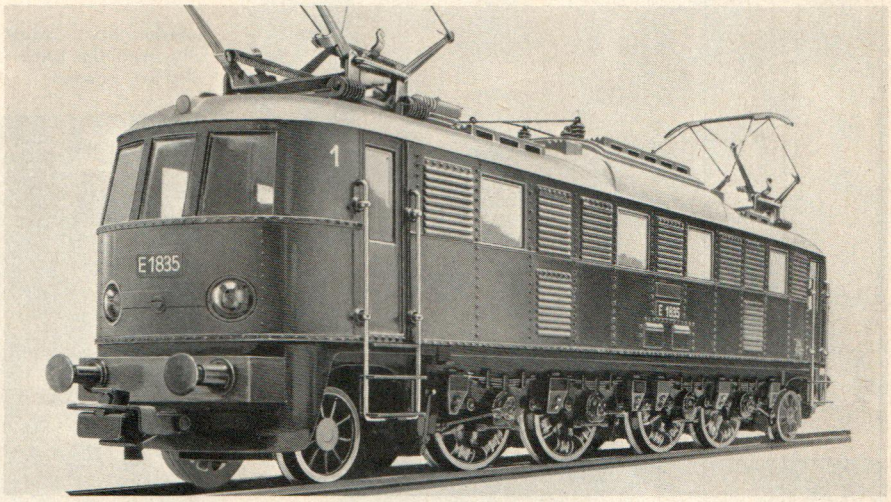


SP-T&NO CLASS MK-5 **HO** **BALBOA**

Prototype is Texas & New Orleans series 738-794, and Southern Pacific series 3241-3249, 3270-3277, built by SP, Baldwin, Brooks, and Lima, 1913-1921. All brass construction. KTM permag motor with worm and gear drive, floating gear box. Length 11½". Minimum radius 21". All drivers flanged and sprung. Wireless drawbar. Manufactured in Japan for Balboa Scale Models, 1135 Garbet Ave., Room K, San Diego, Calif. 92109. List price, June 1, 1965, $52.95 unpainted ready to run.

LOCO BUILDERS PHOTO—218 ELECTRIC LOCO

DEUTSCHEN BUNDESBAHN CLASS E18

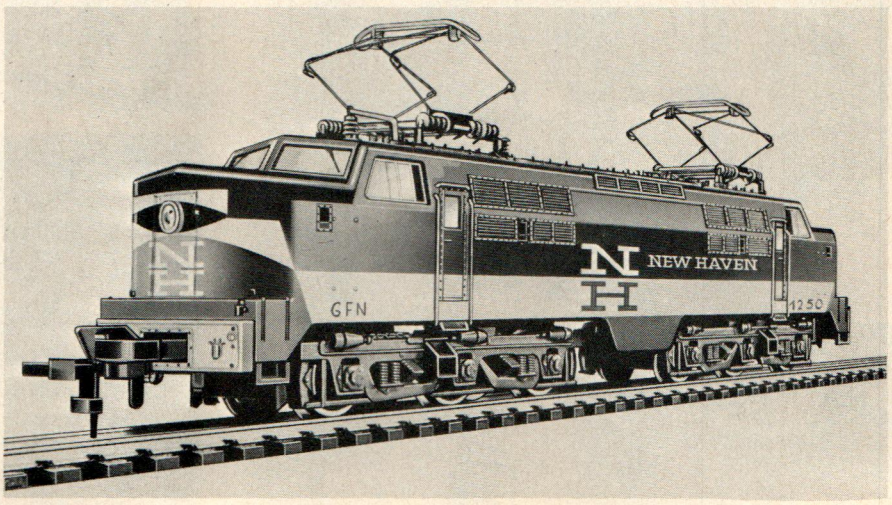


Prototype: German Federal Railways class E-18 1-Do-1 wheel arrangement. Pressure die cast zinc casting finished in blue. Inset plastic windows. Twin headlamps light in direction of travel. Fixed buffer beams. Maerklin automatic couplers. Length, 17.8 cm. Lever permits optional stud contact or overhead wire operation. Special adhesion tires for increased traction. Mfrs. catalog No. 3023. New 1965. Mfd. by Hamo-Modell-Harzuge GMBH, Nuernberg, Germany, from Maerklin parts.

HO-3 RAIL **MAERKLIN**

LOCO BUILDERS PHOTO—219 ELECTRIC LOCOMOTIVE

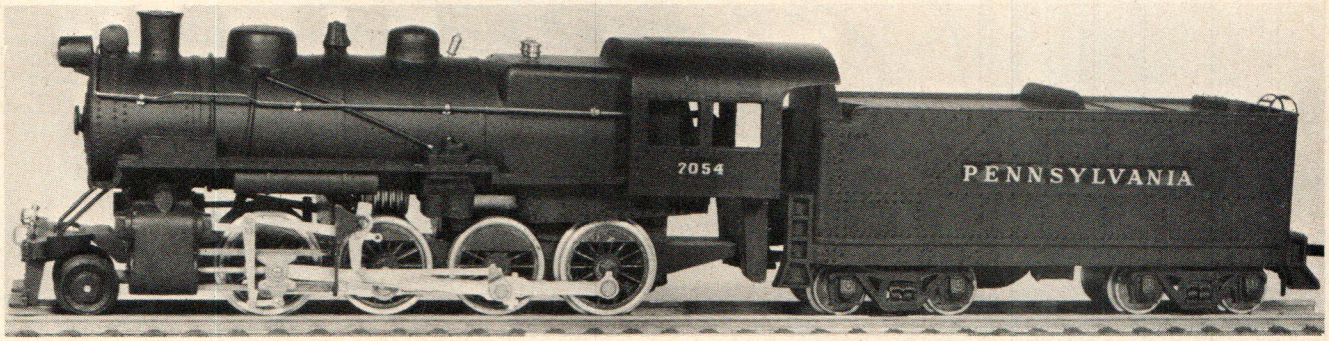
NEW HAVEN 370 SERIES



Patterned after New Haven 370 series C-C rectifier electric locomotives built by General Electric in 1955, Permag motor delivers power through spur gear train to all six wheels of lead truck. Four wheels equipped with rubber tires for increased traction. Operating headlight lights up in direction of travel. Selector switch for optional 2-rail or overhead pantograph operation. Length 8". Weight, 20 oz. Minimum radius, 14½". Equipped with Fleischmann auto-couplers on swing mount. Snap-on NMRA-type coupler available. New 1965. Mfd. in Germany by Fleischmann. Imported to U.S.A. by Charles C. Merzbach Co., Inc., 95 Fifth Ave., New York, N. Y. 10003. List price, June 1, 1965, RTR $24.98. Road names: New Haven, orange, black, white.

HO **FLEISCHMANN**

LOCO BUILDERS PHOTO—220 2-8-O



PENNSYLVANIA RR H-9 CONSOLIDATION **HO** **BOWSER**

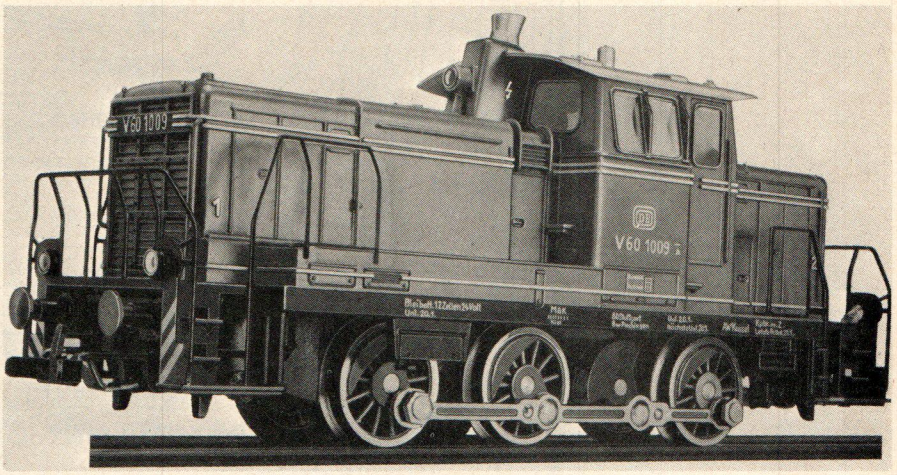
Prototype: Pennsylvania Railroad class H-9 Consolidation. Length with tender, 10¼". Weight, 30 oz. Min. radius, 12". Height, 2-1/16". Die cast boiler, frame, cab. Stamped and cast fittings. 62" spoke drivers. Pittman motor delivers power through worm and gear. Mfd. by Bowser Mfg. Co., P.O. Box 122, Montoursville, Pa. 17754. Complete kit, $32.59. Loco kit only $27.95. Tender kit only, $6.95. Prices correct to June 1, 1965. This locomotive mfd. from late 1940's thru 1963 by Penn Line. Dies purchased 1964 by Bowser. Use Bowser replacement parts for former Penn Line version. See Bowser catalog for parts availability.

LOCO BUILDERS PHOTO—221 YARD SWITCHER

GERMAN FEDERAL RAILWAYS

SERIES V-60

Prototype: German Federal Railways class V60, type O-6-O. Spur gear drive to all axles ,with two special adhesion tires on trailing drive axle. Remote control deversing. Three headlights front and rear. Plastic superstructure with plastic inset windows. Zinc die cast frame. Maerklin Telex couplers both ends. 4¾" long over buffers. Catalog No. 3065. Mfd. by Gebr. Maerklin GMBH, Goeppingen, Germany. New 1963. 1963 list price RTR U.S.A. $22.95.



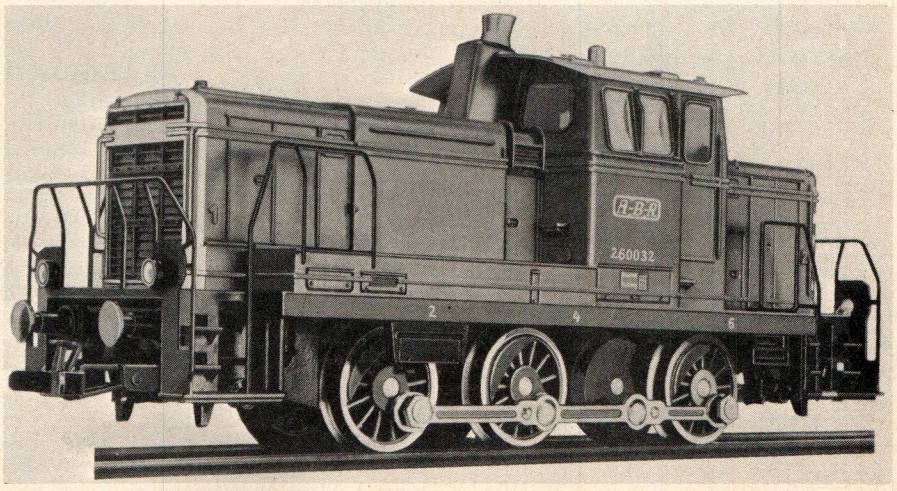
HO 3-RAIL **MAERKLIN**

LOCO BUILDERS PHOTO—222 YARD SWITCHER

SOCIETE NATIONAL DES

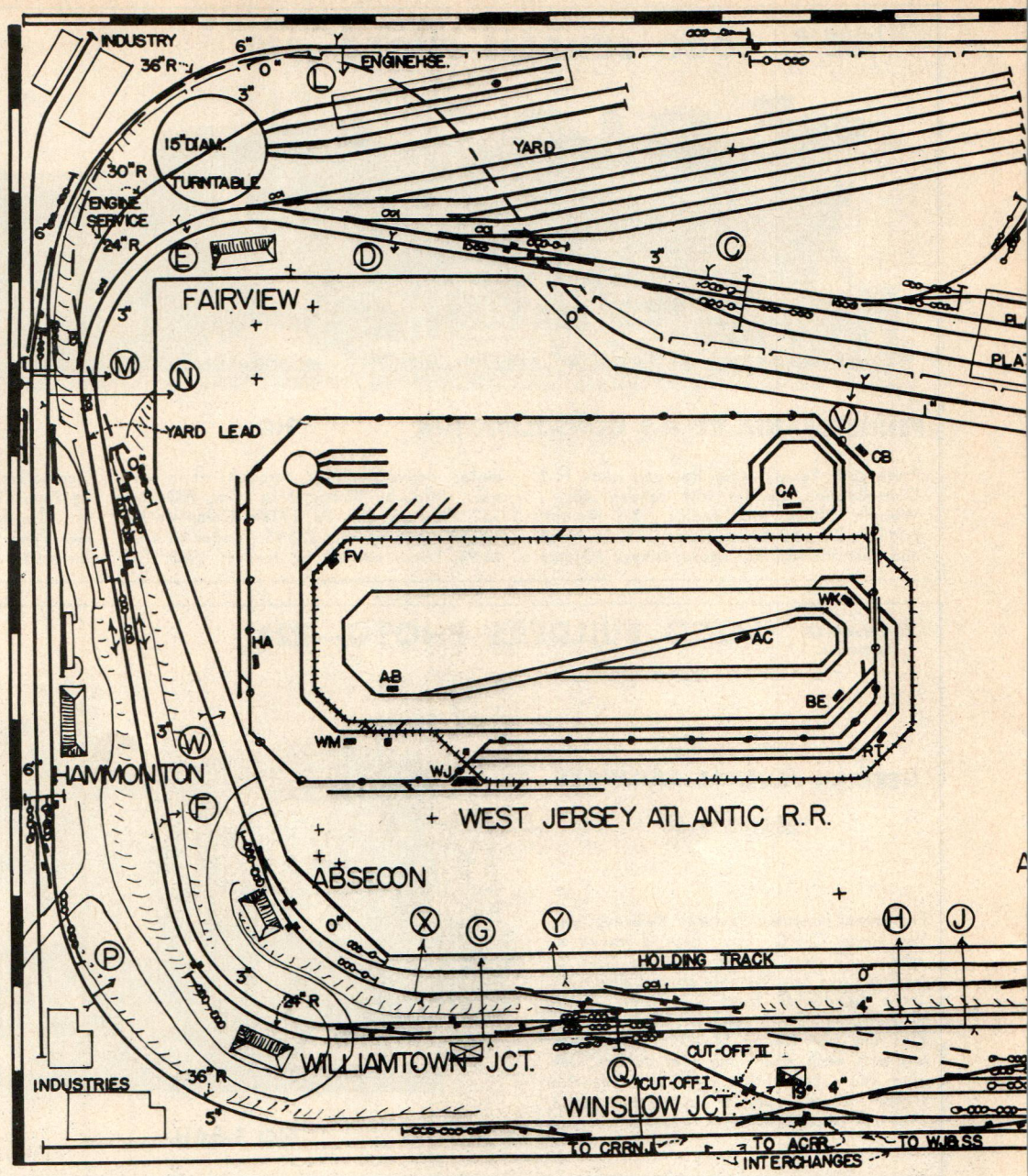
CHEMINS DE FER BELGE

Prototype: Belgian State Railways (SNCB) locomotive No. 260032, type O-6-O. Spur gear drive to all axles and jackshaft with two special adhesion tires. Remote control reversing. Two headlights front and rear. Plastic superstructure with plastic inset windows. Zinc die cast frame. 4¾" long over buffers. Catalog No. 3069. Mfd. by Gebr. Maerklin GMBH, Goeppingen, Germany. New 1963. 1963 price list RTR U.S.A. $19.95.



HO 3-RAIL **MAERKLIN**

West Jersey Atlantic



The 13 x 17 ft. WJA is designed to pack in a very long mostly over single track, with a terrain patterned after the flat lands of southern New Jersey. Maximum grade is 2%.

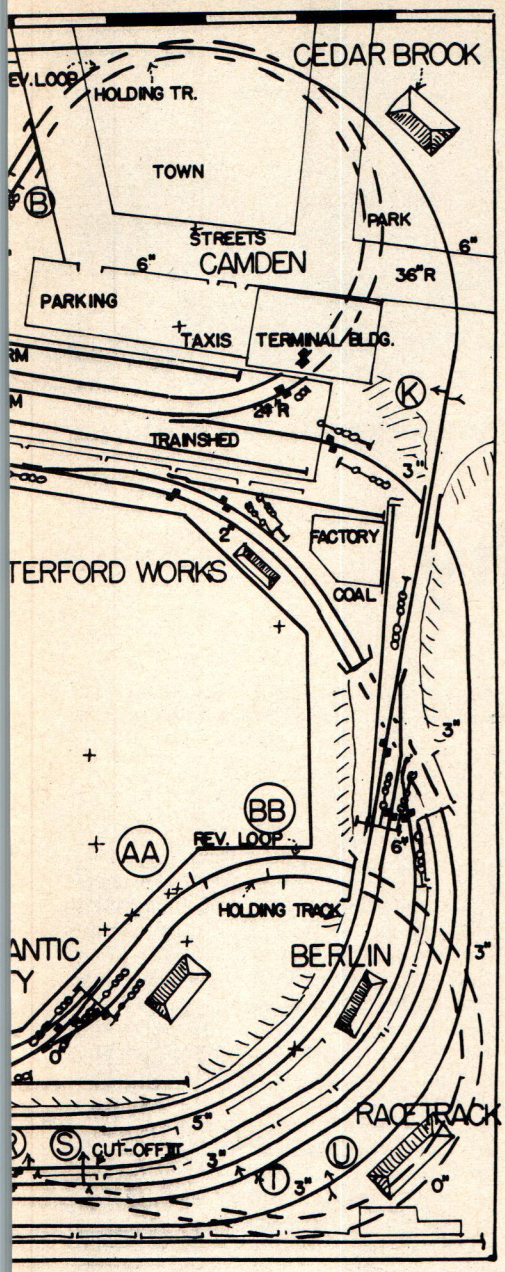
THE West Jersey Atlantic Railroad is designed as a standard railroad built into a room 13x17 ft. in size for HO use. The WJA provides a long single track run, although model railroading be what it is, part of the run has the appearance of double track. The WJA has been designed with 24 and 22 inch minimum radius curves, No. 6 minimum switches, and no grade steeper than 2%, or 1 inch in 48 inches.

I have taken the South and West Jersey terrain, with which I am familiar, along with some liberties in geographical progression which I'll thank you not to call to my attention.

In defense of the Atlantic Ocean, I might say that it needs more attention in model railroad names, what with the attention that the Pacific has received over the years, even down to such diminutive pikes at the Quanah, Acme & Pacific RR. Of course, the Atlantic has been mentioned occasionally, as in the DSS&SA, the ACL, several extinct traction companies, and the Dominion Atlantic in Nova Scotia.

To help right this slight, I've called this pike the West Jersey Atlantic; West Jersey being that part of the Garden State southwest of a diagonal line running from the vicinity of Tuckerton to the shores of the Delaware River about Trenton. From this area derived the former West Jersey & Seashore, now a part of the P-RSL.

The WJA layout starts at what could be a ferry terminal, but is modeled as the terminal for a higher level town (called Cedar Brook on another lap of the railroad). There is a train shed with two platforms and four tracks, with a two level terminal building, the lower serving the tracks, the higher the street. Trains proceed from the terminal toward the left over double track, which as pointed out in one of my single-track Railroading articles, is often part of a single track line as it nears a terminal. Double track makes almost one complete circuit of the room, passing Fairview, Williamstown Jct., to just past Berlin. If the railroad is in operation with, switching in the yard,



etc., this apparent double track would be operated as single, from the cross-over between Camden and Fairview around to the Williamstown Jct. crossovers, with a passing track from there to Berlin. The outer track would then be the yard and engine house lead. If full double track were desired from Camden to Berlin, then a third track, to the left of the double track, would have to be added from Williamstown Jct. to Fairview, but this does not seem necessary to me. Both tracks are signaled for bi-directional running, for times when the yard was not being worked. While not shown, suburban service (electric???!!!) (RDC?) could be operated over the double-track stretch, though this would require a small MU storage yard above Berlin.

Single track runs from Berlin through Cedar Brook, as far as the Hammonton siding. Notice that this has been divided near its center, to permit independent switching in either or both end areas, as well as to let following trains run a little closer. Beyond Hammonton there is Winslow Jct. where there are several interchange tracks — to the West Jersey & Seashore, to the Atlantic City R.R., and to the Jersey Central —and the main line swings inward, dividing into three! The inner line is a cut-off III (to Berlin) for continuous running, while the next two lines counting outward are the main line and passing track which duck down as far as Waterford Works.

From Waterford Works, single track runs to the beginning of double track to Atlantic City terminal, namely Abecon. This stretch is also divided in two at center left, for reasons outlined above. Atlantic City terminus is made rather simple, progression around the reverse loop and/or holding track being normally counter-clockwise. A crossover right by the depot creates what is really a lap siding and also lets two separate trains be held at this end of the railroad. Naturally Atlantic City could be expanded, especially if it could be ducked under the rest of the railroad to a separate area completely off the present plan, to far lower right, either from side or bottom of the plan.

As on the CMDB&CP interurban layout, upon which the WJA is based, there are two cut-off tracks, II and III, to permit two continuous runs completely independent of each other, crossing however at Winslow Jct. One such run is shown in the schematic diagram in the center of the plan as cross-hatched, the other with small circles across the track line at intervals. One such run goes through Camden terminal each time around, while the other does not. When you are doing this, you could operate a shuttle service via RDC, gas-car, or what-have-you from either Winslow Jct. (where there is presently no station) or Track Track into Atlantic City.

Another continuous run which could be worked either by itself, or, with some operational gymnastics along with the two mentioned above, would utilize the "CRRNJ" interchange at Winslow Jct. to make just a big twice around the room run, sometimes called a twice-around oval, sometimes an inside-out figure eight. On the schematic diagram I have marked the CRRNJ interchange with an extra heavy line, but not otherwise marked the route. Again, a Race Track to Atlantic City shuttle could be run.

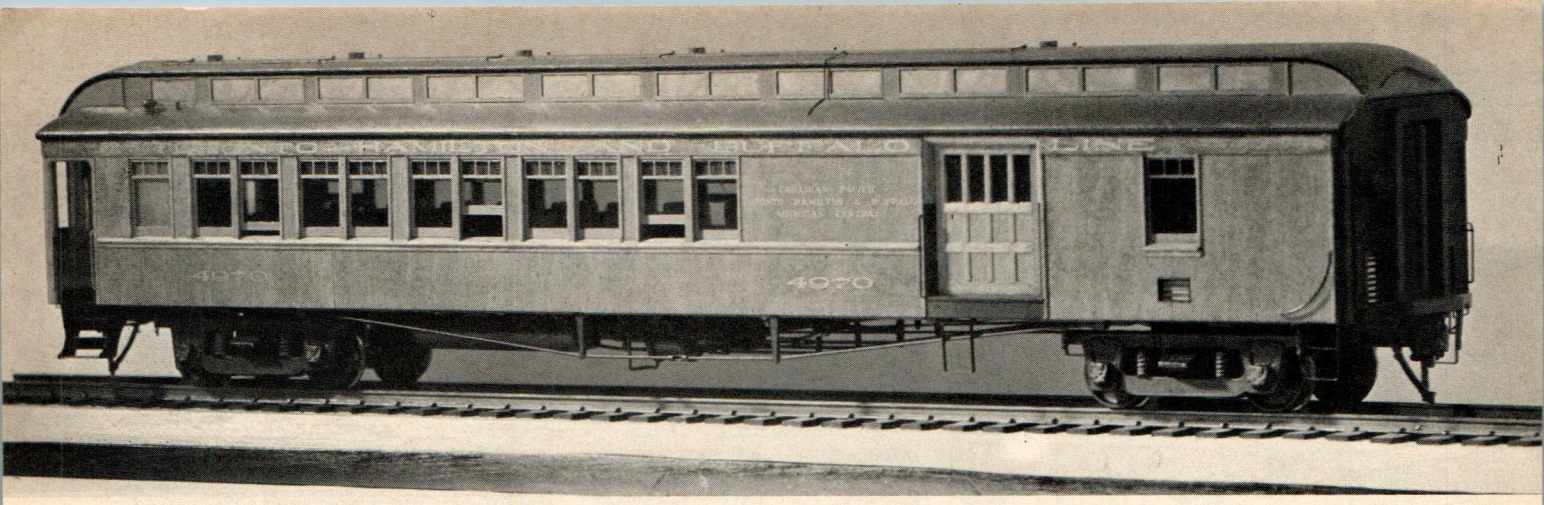
Since the Atlantic City to Winslow Jct. line is used only when in full point-to-point operation or as a shuttle, it's too bad that it has to be built first. However, it must be done first since it is at the lowest or 0" level, and would be the devil to insert later. Perhaps you could install just the later-to-be-hidden tracks in the first stage, not putting in their open air connections until the rest of the pike is done. You may question the necessity of ducking the Atlantic City line back into the upper left corner of the plan, when there is space to cut it right across this corner out in the open with as great or greater radius curve. The purpose for the duck-back was to make the yard switches quite accessible for you, the operator.

I have tried to keep these as well as other switches, the usual sources of trouble on a model railroad, within reach of any centrally located operator. Of course Hammonton lower switches are back about two and a half feet, though at a high level. This whole passing track could be angled inward at the lower end, if desired, to make them more reachable. The Winslow Jct. switches are about two feet back, not too far to reach, but if desired these two could be moved forward with the track, enough to make the Winslow-Waterford Works passing track in line with the track coming from Hammonton.

Some of you may raise eyebrows at my suggesting changes in a layout plan which is hot off the drawing board. But that is the way it is with layout plans. Were I to redraw this even a day after its completion, it could be slightly different. A further redrawing would show other changes. Even then as the layout was being built, there would be more changes. After it has been built, this or any layout, the usual practice of ripping out a whole area now and then for track and/or scenery changes is not uncommon among experienced model rails as they gain more experience.

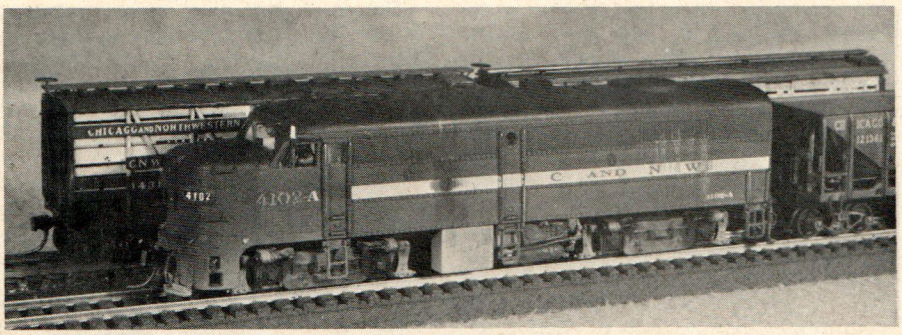
You'll notice that I have spoken of changes, not improvements. Naturally, each change is conceived as an improvement, for better operational possibility, for simplification, for complication, or whatever. But whether each will, in time, be approved as an improvement will remain to be seen. I've made huge changes in layouts—such as ripping down overhead wire in a car-barn area, installing outside third rail, and equipping all "motors" with third rail shoes, later, in light of experience, these proved NOT to be improvements at all, contributing to erratic operation, though the lack of over head wire made it easier to give cars a shove! That whole pike, as well as others I have had, went through numerous periods of extensive track revision.

I'm going to end this single track kick with the expression of my own opinion, that I still like double or multiple track railroading better. It's simpler and more suitable for a model pike, even though single track is a little more realistic looking, since it looks longer, and, if you like "operation," meets and passes gives you more the flavor of real railroading. Whatever you build, it'll be your railroad, and you'll run in. Conceivably you may come to the same conclusions as I conceivably the opposite—or somewhere in between.



1962—Montrealer James Shields was the first O gauger to win, with three TH&B pass. cars.

1965 Craftsman Trophy



1963—A super detailed kit built diesel unit won award for Lloyd Keyser at Indianapolis.

1961—The 4th winner was Dean Freytag with a remarkably complete locomotive repair shop.

IT'S NEARLY that time of year again when some lucky modeler will trot home from the annual convention of the National Model Railroad Association with the 8th annual Craftsman Trophy, awarded by Railroad Model Craftsman Magazine for the model which best demonstrates originality in craftsmanship. All models entered in the NMRA model contest at Vancouver, British Columbia, this year, will automatically qualify for the award, in addition to the various other regular and special awards in the model contest.

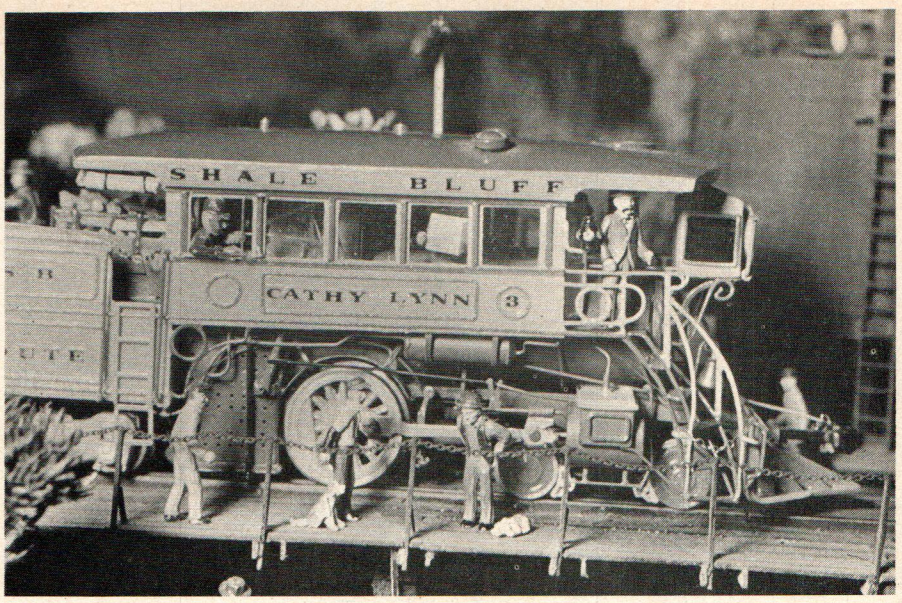
The Craftsman Trophy was originated in 1958 to help bring needed recognition to model builders at a time when the model railroad hobby was being deluged with ready to run equipment. Through the cooperation of NMRA, the award is made each year during that group's national convention permitting more modelers to participate, as the convention site shifts from city to city.

Of the seven awards made thus far, six have been made to HOers and one to an O gauger. Awards have gone to two Canadians. Two awards went to locomotives, three to structures, and two to cars. At least two of the winners have relied heavily on commercial kits or parts. At least one winner used plans from Model Railroader Magazine.

The basic idea behind the Craftsman Trophy is the constant search for new modeling concepts. On this premise we feel that everybody stands an equal chance of winning.

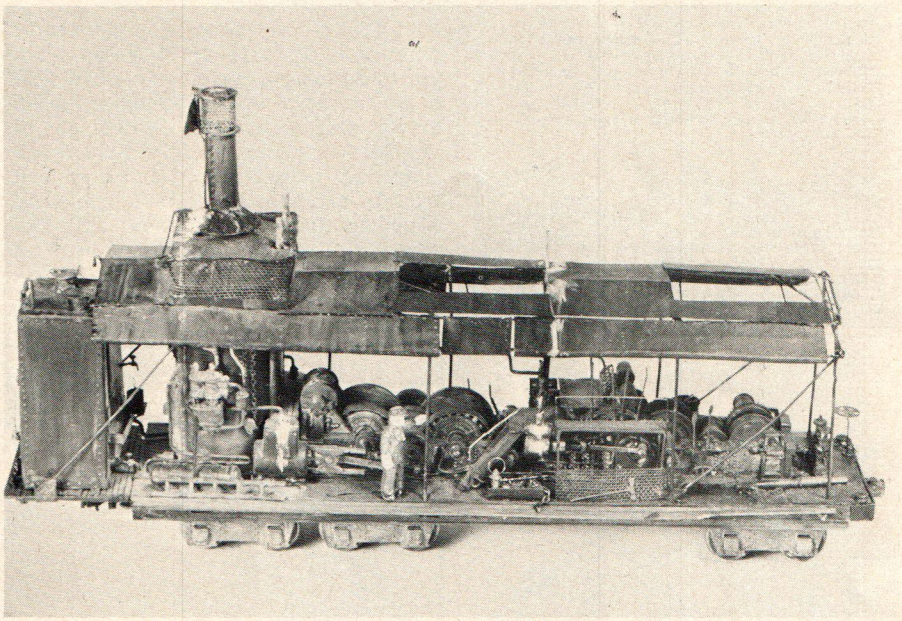
Previous winners are shown in the photos. We hope you are the 1965 winner.

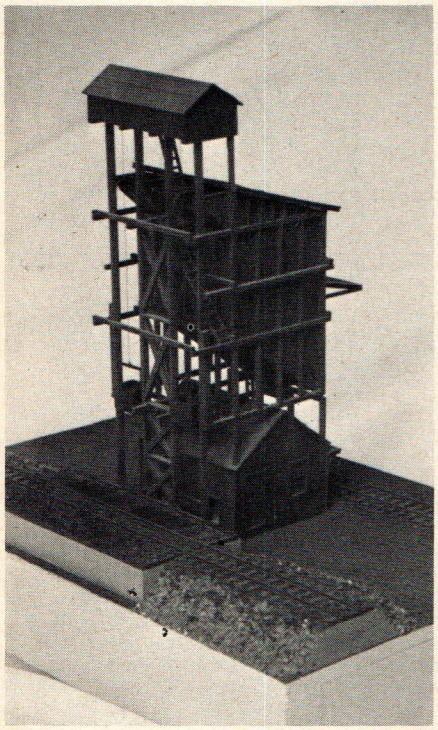
The Vancouver NMRA Convention will see many model railroad activities, including the 8th annual presentation of the Craftsman Trophy for originality in craftsmanship. Will you win it?



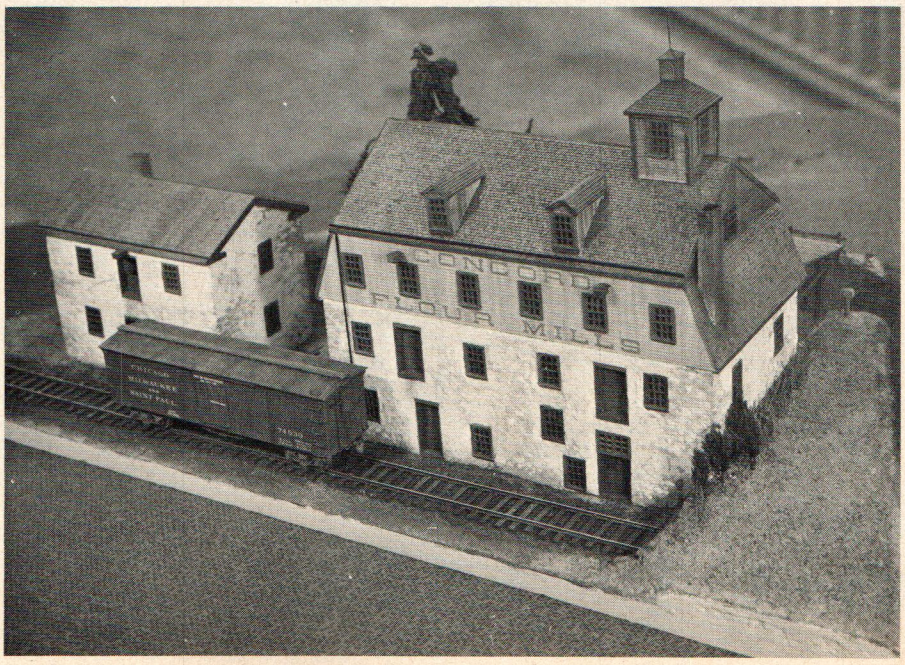
1958—Buffalo's Glenn Staubitz won the first Craftsman Trophy with a tiny inspection loco.

1959—Tom Williamson of British Columbia built this HO Duplex Yarder, winning Trophy No. 2.





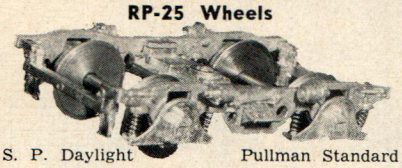
1960—Len Madsen of Kankakee, Ill., won the 3rd trophy with his narrow gauge coal tower.



1964—A model of a 200 year old grist mill by Thomas Hook did the trick at Philadelphia.

GRACELINE
O GAUGE SPRUNG TRUCKS

RP-25 Wheels



S. P. Daylight — Pullman Standard

Kit: 5.95

Other Kits: 6 Wheel Pullman, 4 wheel (twin coil) Commonwealth, 4 wheel passenger, A.A.R. freight, high speed freight truck.

(Dealer Inquiries Invited)

FREDERICK MANUFACTURING
10666 Linden Ave. Bloomington, Cal. 92316

"EXPERIENCE MAKES THE DIFFERENCE"

Did you know . . . that the FIRST super-detailed all-brass top-quality models were imported by Max Gray in 1952? This continuous dedication to the art of modeling perfection is living proof of accumulative skill and your "Green Light" to reliability and enduring value. See your favorite hobby shop dealer or send $1.00 for YEARLY direct-by-mail cataloging service. Specify Gauge, please. (O, HO, ON-3)

MAX GRAY
BOX 757 • SANTA CLARA, CALIF.

Speedi DRIVER CLEANER
NO SPECIAL WIRING REQUIRED!

We think you'll agree there just isn't any simpler, more efficient way to remove dirt and scum from locomotive wheels. Electrical leads are part of the Speedi Cleaner. Just clip them to rails or power source, touch brush to wheels and spin dirt away! For all locos 'OOO' to 'O' gauge. Include one in your next order.

B-36 SPEEDI DRIVER CLEANER $2.85

SPRING 'PIC'

We also think you will be amazed at how much easier it is to handle tiny springs with this tool than with tweezers or knife blade. A conical section slips inside the coils and stays there 'til you're ready to let go. B-35 SPRING 'PIC' each 75c.

Kadee *Quality Products*
P.O. BOX 266C,
MEDFORD, OREGON 97501

COMING SOON IN RMC . . .

* Major Hoople's Warehouse, fun to build
* Mack Rail Bus (1955), New Haven RR
* Alco 855 5500 hp. Diesel, Union Pacific
* Barnhart's HOn3 Working Knuckle Coupler
* Jersey Central Baldwin Freight Diesel
* Plus more features by Joe Wilhelm, Gil Melle', Larry Jackman, and many others.

SEPTEMBER RMC on sale at newsstands Aug. 27

TROUBLE SHOOTING

(Continued from page 11)

Quick Reversing

M. Mason: I have been criticized for reversing HO engines at full speed, and told this will ruin them. Should I turn the speed control off before reversing the train?

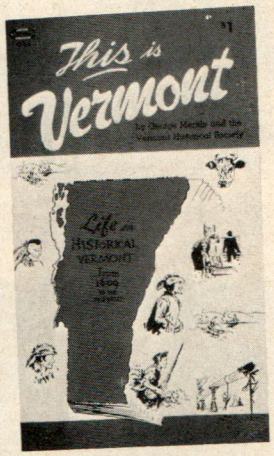
ANSWER: I've been doing exactly what you do, and in 25 years have yet to damage a motor or engine. The only incident was loosening of a driver, which through a wheel out of quarter—but this merely exposed a condition which would have caused trouble at some later date, probably when company was present. All this speed control twisting to slow and stop a train before reversing is baloney, hog-wash, and physical fitness propaganda so you'll have strong wrists. Schopp.

There must surely be a psychotic quirk to any mind which would make any precision machine racing forward at speed, and possibly with a full tonnage drag behind, suddenly switch directions without first stopping. Whether it damages the equipment or not, it's bad and non-prototypical practice and should be subject to penalties too horrible to envision. Carstens.

American RR of Puerto Rico

Al Schmidt: Is the narrow gauge railroad still running out of San Juan, Puerto Rico?

ANSWER: The line was abandoned some few years back. Standard gauge mainland freight cars still service the U. S. Naval Base at San Juan, coming in by shop. If San Juan keeps growing, it'll be ripe for a good rapid transit system running from the airport to old San Juan, with possible



This is VERMONT

By GEORGE MERKLE

Life in Historical Vermont, from 1609 through the present as depicted in the delightful pen and ink sketches of George Merkle and sponsored by the Vermont Historical Society. "This Is Vermont" is the story of our 14th State: farm country and vacationland, land of marble and maple syrup, Calvin Coolidge and Ethan Allen, covered bridges, jets and people.

Here is a book every Vermonter and anyone interested in American and Canadian history will relish. A fine gift.

AVAILABLE AT HOBBY SHOPS AND BOOK STORES IN NEW ENGLAND

THIS IS VERMONT: 2nd Edition. 80 pages plus covers. 4¾" x 8¼". Published by Model Craftsman Publishing Corp., 1965.

MODEL CRAFTSMAN PUBL. CORP. 4015
P.O. Drawer C
Ramsey, N. J. 07446

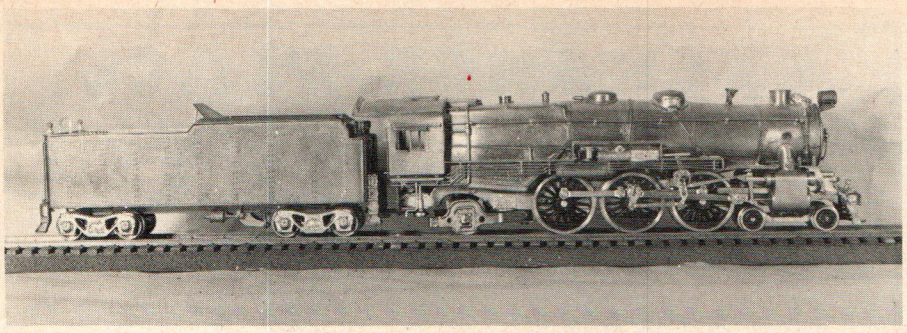
Please rush me ..... copies of THIS IS VERMONT. I enclose $1.10 for each copy ordered.

NAME .....

STREET ..... CITY .....

STATE/PROV. ..... ZIP ZONE .....

Please print or type plainly



Customized Pennsylvania K-4s using parts from Pacific Fast Mail, Mahogany Valley, and other manufacturers, depicts the famed Pacific as she was when new. She was an all time great engine.

relaying of standard gauge track on at least part of the old railroad right of way to the suburbs. Traffic jams are getting quite bad in this beautiful city.

Do any readers know of still operating plantation railroads in Puerto Rico? Ed.

Wants An Erie J-2

Several Readers: Now that a Frisco Russian Decapod is being offered in HO, why don't they make an Erie version, too?

ANSWER: Pacific Fast Mail recently brought forth the Frisco version of the famous Russian Decapod, made in quantity for the Russian railroads but never shipped because of the revolution. The locos were gradually sold to a wide variety of American roads who used them as late as the post-World War 2 period. The Frisco loco could be converted to the Erie J-2 without too much trouble. If PFM received enough requests, they might even have a production run made. PFM is again running its popularity contest for locos, from which future plans will be made.

Unmodernized K-4

W. Smith: Did you do what I think you did with the mechanism of the K-4 you turned into a 2-8-2 some time back?

ANSWER: Yes. A new superstructure was obtained from PFM, on which I moved generator and headlight to "original" positions. Train control box was removed from right running board, and a Penn-Line/Bowser casting of same (with boiler braces) was put on pilot deck, along with steps to running board. Whistle deflector was removed. Classification lights on smokebox as well as markers on tender and back-up markers on pilot were also replaced with Penn-Line/Bowser castings. The latter are presently available also in lost wax from Mahoning Valley Car & Foundry or Trackside Specialties as well as your dealer. The un-antennaed tender is actually from an original Gem M-1 4-8-2, obtained by devious means from Tom Henk. The engine is now the property of a North Jersey collector who also happens to be a long-time Pennsy employee and remembers the engines from "when."

Actually the real original K-4s would have a different style box headlight as well as other minor differences, but the Carstens photo shows my model of the engine approximately as it was before modernization.

Custom Layout Design

Many Readers: Please design a layout for me. I enclose a sketch of the layout space available. I want this and that, etc.

ANSWER: We'd much rather choose your wife. Your personal layout reflects your own railroad thinking. We suggest you design your own, which will help you tremendously in understanding what model railroad is all about. TRACK DESIGN and COMPLETE LAYOUT PLANS are both big helps, as are back issues of RMC, and other books which your local dealer has in stock.

If we designed layouts commercially, we'd have to charge from $3 to $5 or more per hour and it could take weeks or longer before you were satisfied. So, design your own and buy some locos from your local dealer with the money you saved yourself.

WORLD FAIR VISITORS
SUMMER SALE ON
HO — O GAUGE — ACCESSORIES
COME AND SEE AND SAVE
HOUSTON SALES
TRAIN AND HOBBY CENTER
55 East Houston St. New York 12, N. Y.
Tel.: RE 2-4079
Open Sunday to 1 P.M.
Open Every Day to 7 P.M., incldg. Saturday

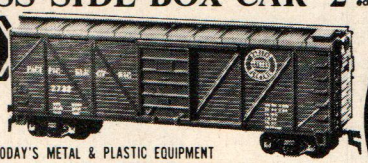
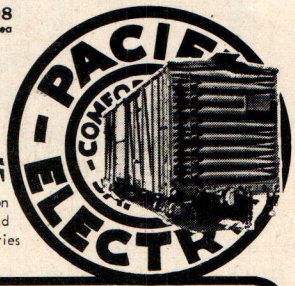
TRADE IN
that brass engine you no longer want, or that needs repairs, on a new one of your choice from my list (free for SAE) or otherwise. Write what you have, what you want; or call, day or evening.
WILLIAM SCHOPP
445 S. Logan Av. Trenton, N.J. 08629
Carbon Electrode Soldering Tweezers, with transformer, $22.50 postpaid.

Benty Hobby Specials
Marnold C-15 Packs.....$ 9.95
Marnold C-25 Packs.....$15.88
Kemtron and Cal Scale Parts
Suydam Interurbans and Buildings
All Regular Line Ambroid Kits in Stock
Ambroid #6 or #9 1st Series.....$ 9.50
HOn3 Kits and Parts
Add 50c for shipping on orders under $5
BENTY HOBBY SUPPLIES
956 Belmont Ave. Chicago, Ill.

CHESTER HOLLEY
Model Railroad Specialist

$13.95
HO
2-Rail
DC
THE CALEDONIAN
Coach & Combine

ea. $3.50
Phone 831-7202
3812 South Himes Avenue
Palma Ceia (Behind Brittan Plaza)
Tampa, Florida

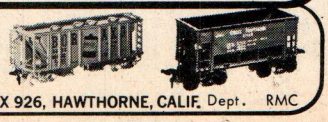
HO TRUSS SIDE BOX CAR 2.98 ea
ROUNDHOUSE Products
New!
PRECISION CAST METAL FRAME.
PRE-PAINTED BODY.
RP 25 METAL TRUCKS.

FEATURING THE FINEST IN TODAY'S METAL & PLASTIC EQUIPMENT
Originally all Pacific Electric box cars were of all wood construction and were numbered in the 2700 series. A few were "modernized" with metal ends. Cars were in interchange service until the late 1940's whereupon they became "work cars" for the PE and were then re-numbered into the "00" series (as was all PE work equipment).


RAILWAY EXPRESS
This all green car has white lettering and a red and white herald. A most unusual car that belongs on every pike.
SOUTHERN PACIFIC
Here are the more conservative colors of this familiar line. Model is box car red with yellow and white lettering.
SANTA FE
The brilliant color scheme of the Santa Fe car has sides in bright red, roof and ends black, with lettering in white and black.
Pre-painted body.
RP 25 metal Timkin trucks.
NMRA couplers and hardware.
Plus that extra fine, rub-on lettering and numbers.

HO 50' PLUG DOOR BOX CARS $3.10 ea
• Engineered to last
• Smooth trouble free operation
• Precision scaling and authentic detailing

Each of these 50' Plug Door box cars are highly detailed, authentic models of the finest quality.
Make up a string with the extra car numbers and assorted data from the rub on transfer supplied in each kit.

ROUNDHOUSE EQUIPMENT
ALL NEW
SPARK ARRESTERS Set of 4 $1.00
BALLOON TIN CAN GERLINGER DIAMOND

H-O GAUGE CATALOG

SEND 15¢ to cover postage.
MODEL DIE CASTING INC., P.O. BOX 926, HAWTHORNE, CALIF. Dept. RMC

RAILROAD MODEL CRAFTSMAN

Back Issues Still Available

Complete your library now.
Many issues in short supply.

Here is the latest complete listing of all available back issues of RAILROAD MODEL CRAFTSMAN. Here is a wealth of material to solve every model railroad problem: layout design, loco and car drawings, layout photos, construction, and more. Issues dated earlier than April 1948 also contain material on model hobbies in addition to model railroading.

- ☐ 1947 — January
- ☐ 1947 — February
- ☐ 1947 — March
- ☐ 1947 — April
- ☐ 1947 — May
- ☐ 1947 — June
- ☐ 1947 — July
- ☐ 1947 — August
- ☐ 1947 — September
- ☐ 1947 — October
- ☐ 1947 — November

- ☐ 1948 — February
- ☐ 1948 — March
- ☐ 1948 — April
- ☐ 1948 — May
- ☐ 1948 — June
- ☐ 1948 — July
- ☐ 1948 — August
- ☐ 1948 — October
- ☐ 1948 — November
- ☐ 1948 — December

- ☐ 1949 — January
- ☐ 1949 — June
- ☐ 1949 — July
- ☐ 1949 — August
- ☐ 1949 — September
- ☐ 1949 — October
- ☐ 1949 — November

- ☐ 1951 — January
- ☐ 1951 — April
- ☐ 1951 — May
- ☐ 1951 — June
- ☐ 1951 — July

- ☐ 1952 — March
- ☐ 1952 — May
- ☐ 1952 — September
- ☐ 1952 — October
- ☐ 1952 — November
- ☐ 1952 — December

- ☐ 1953 — January
- ☐ 1953 — February
- ☐ 1953 — March
- ☐ 1953 — June
- ☐ 1953 — July
- ☐ 1953 — August
- ☐ 1953 — September
- ☐ 1953 — October
- ☐ 1953 — November

- ☐ 1954 — February
- ☐ 1954 — October
- ☐ 1954 — November
- ☐ 1954 — December

- ☐ 1955 — January
- ☐ 1955 — February
- ☐ 1955 — March
- ☐ 1955 — April
- ☐ 1955 — May
- ☐ 1955 — June
- ☐ 1955 — July
- ☐ 1955 — September

- ☐ 1956 — October
- ☐ 1956 — November

- ☐ 1957 — February
- ☐ 1957 — April
- ☐ 1957 — May
- ☐ 1957 — June
- ☐ 1957 — October
- ☐ 1957 — November

- ☐ 1958 — January
- ☐ 1958 — February
- ☐ 1958 — March
- ☐ 1958 — April
- ☐ 1958 — May
- ☐ 1958 — July
- ☐ 1958 — August
- ☐ 1958 — November
- ☐ 1958 — December

- ☐ 1959 — January
- ☐ 1959 — February
- ☐ 1959 — March
- ☐ 1959 — May

- ☐ 1960 — March
- ☐ 1960 — June
- ☐ 1960 — August
- ☐ 1960 — September
- ☐ 1960 — December

- ☐ 1961 — January
- ☐ 1961 — August
- ☐ 1961 — October

- ☐ 1962 — May
- ☐ 1962 — June
- ☐ 1962 — July
- ☐ 1962 — August
- ☐ 1962 — September
- ☐ 1962 — October
- ☐ 1962 — December

- ☐ 1963 — January
- ☐ 1963 — February
- ☐ 1963 — March
- ☐ 1963 — April
- ☐ 1963 — June
- ☐ 1963 — July
- ☐ 1963 — August
- ☐ 1963 — September
- ☐ 1963 — October
- ☐ 1963 — November
- ☐ 1963 — December

- ☐ 1964 — April
- ☐ 1964 — May
- ☐ 1964 — June
- ☐ 1964 — July
- ☐ 1964 — August
- ☐ 1964 — September
- ☐ 1964 — October

- ☐ 1965 — January
- ☐ 1965 — February
- ☐ 1965 — March

IMPORTANT: Be sure to give 2nd and 3rd choice as certain issues are in very short supply. Magazines are all complete, in good condition. If you don't want to clip - magazines, place order in letter and print or type legibly.

RAILROAD MODEL CRAFTSMAN Dept. 6035
Back Issue Dept.
Ramsey, N. J. 07446

Enclosed find $..... Please send me the back issues of RAILROAD CRAFTSMAN which I have checked above, at the price of any 10 for $3.50. Single copy price 50 cents each.

NAME .....

STREET .....

CITY .....**STATE** .....**ZIP** .....

PLEASE PRINT OR TYPE CLEARLY. Copies postpaid in USA and Canada

Please add 50c for each 10 copies sent to Foreign countries.

EXCHANGE PLACE

EXCHANGE and PASS listings are open to all readers. No "For Sale" or commercial listings accepted here (Classified Ads are 20c per word elsewhere in this magazine). We reserve right to edit any listing or reject any listings which are in our opinion commercial in nature. Limit, one listing every three issues. RMC cannot assume any responsibility for differences occurring between parties to an exchange. Listings cannot be repeated. Violations of standard ethics will be considered violations of postal laws and dealt with as such. Use your full real name. Sorry, no dealers. Print or type legibly. Allow 6-8 weeks for publication. Sample pass must accompany request for pass listings. No objectionable passes listed.

Send all Exchange listings to: Exchange Place, Railroad Model Craftsman, P. O. Drawer C, Ramsey, New Jersey 07446.

PASS EXCHANGE

MAD RIVER, QUINCY & SOUTHERN RR: (Printed) Thomas B. Seitz, 309 E. Williams Rd., Bellefontaine, Ohio 43311.

SANTA FE SOUTHEASTERN DIVISION: (Printed) Stephen Sandifer, 247 College, Shreveport, La.

PROSPECT AND UPPER RIDGE RR: (Printed) A. E. Sima, Jr., 14 Ridge Rd., Catonsville, Md. 21228.

TEXAS & WASHINGTON RR: (Printed) Carl E. Ellis, 5 Melrose Pl., Middletown, N. J. 07748.

HUDSON BAY RWY: (Printed) Robert P. Weatherburn, 9019—133rd Ave., Edmonton, Alberta, Can.

MAPLELEAF RIVER RR: (Printed) Richard F. Wehr 8440 S. W. 99th Ave., Miami, Fla.

VIRGINIA & TRUCKEE RR: (Printed) Mirland H. Severin, 3940 Maple St., Ventura, Calif. 93003.

VALLEY LINES VALLEY LUMBER CO., INC. (Printed) Scott K. Schiechl, 3915 Mission St., San Francisco, Calif. 94112.

SEA GIRT & WESTERN RR: (Printed Timetable) Hugh F. Stephens, 178 Roseland Ave. (A-1) Caldwell, N. J. 07006.

SWAPPERS

WANT: Model Craftsman — Model Railroad Manual, pub. about 1934. Please state price and cond. Warren N. White, 125 Fairway Dr., Covington, La. 70433.

EXCHANGE: Kurtz Kraft CofG & DRGW box car kits FOR: same NH, Buffalo Creek, or reefers, Gerald P. Mulford, 7659 Charlesmont Rd., Baltimore, Md. 21222.

EXCHANGE: HO Brass Mack Railbus FOR metal English or Mantua RDG or PRR 0-4-0. State cond. Also have dup. Authenticast Tanks. SAE for list. Ken Chamberlain, 3025 Kaibab Vista, Tucson, Ariz. 85713.

EXCHANGE: Austin S.P. Pacific M.D.C. S.P. 0-6-0; Tyco GP-20's; Mantua General; Athearn rectifier elect, F-7's, GP-30's. Varney metal U.P. pass. cars, others. FOR: 80' pass. cars, Mantua Pacific, car kits, or? Walter Neff, 781 N. Park, Pomona, Calif.

EXCHANGE: Asstd. custom blt. HO locos & cars FOR: "O" ga. circus kits. Also "HO" circus equip. FOR "O" in good shape. Roy B. Humphlett, 3908 Everest Ave., Riverside, Calif.

EXCHANGE: Revell 0-6-0, exc. cond., partially assembled Mantua 2-8-2; frt. cars (Athearn). FOR: Varney 4-6-0 & 2-8-0; Athearn std. pass. cars, good cond. SAE. John W. Elliott, 160 Garnet Ave., San Carlos, Calif.

TOTALLY disabled WW II veteran wants: Buddy "L" backyard rwy. eng., about 1930 vintage. A. C. Craft, 2432 S. Towner St., Santa Ana, Calif. 92707

EXCHANGE: PFM HOn3 Diner-Sleeper. FOR: HOn3 PFM Coach or Bagg. Unpntd., mint cond. R. T. Carr, 101 Ocean View Ave., Santa Cruz, Calif. 95062.

WANT: Lionel Fairbanks Morse Trainmaster w/o plastic cab. Stan MacFarlan, 745 Harvard Ave., Sunnyvale, Calif. 94087.

WANT: Blue Line So. Pac. "Golden State" & "Overland" 85' pass. cars, kit or blt. up. Advise price & cond. Tal K. Orr, P.O. Box 66 Dublin, Ga. 31021.

WANT: Amer. Beauty or Blue Line CNW pass. cars; Hobbytown 6 whl. trk. Alco Road Switcher; used Athearn GP-30's. Ed Simmons, 6010 N. Winthrop, Apt. 205, Chicago, Ill. 60626.

EXCHANGE: 24 Kemtron HO target sig., exc. cond. FOR: Other HO. John Rothwell, 1108 Drexel, Loves Park, Ill.

EXCHANGE: Lionel 027 Burlington switcher-2328, cars-6257, 6465, 6456, 384-425, RC sws., Man. sws., 90 watt trans., 65' track, misc. FOR: Performance-custom equip. for Chevy "283" eng. David Zachert, R.R. 1, Taylor Ridge, Ill. 61284.

EXCHANGE: O & std. ga. SAE for list. FOR: Voltamp, Knapp, Bing, Maerklin, German trains, Ives Foreign O & #1 trains. Clarence W. Paul, 807 S. E. Second St., Evansville, Ind.

EXCHANGE: PE Timetables, PE Emp. TT, RR Guide incl. 1938, PE—LATL & Metro Guide Maps. SAE for list. FOR: HO Traction or HOn3. John A. Riepe, 45408 Fifth St., East, Lancaster, Calif.

EXCHANGE: HO & HOn3 or cash FOR: TT ga., loco, cars, tracks, etc. Jerry J. Miller, 1724 Whittier Blvd., Montebello, Calif. 90640.

YOU'VE NEVER SEEN ANYTHING LIKE IT

1/2 PRICE TICKET!
TO
THE SPECTRACKULAR
BETTER LIVING CENTER
AT THE
1965 NEW YORK WORLD FAIR

By special arrangement with the management of the Better Living Center's Spectrackular Model Railroad Exhibit, the publishers of Railroad Model Craftsman are able to offer their readers this special half price coupon to one of the largest model railroads ever built in HO scale. This coupon good through the 1965 N.Y.W.F. season.

ONLY 25c WITH THIS COUPON

PRESENT THIS COUPON AT SPECTRACULAR ENTRANCE

WORLD'S LARGEST HO MODEL RAILROAD

EXCHANGE: Kadee "K" cplrs., frt. trks, Varney Steelside Reefers. Athearn metal box car A-128, Ulrich kits. FOR: Gem PRR M-1, Hobbytown Alco switcher, MR mag. before 1948, or quality kits. Gary C. Rauch, Metallurgy and Mining Bldg., Urbana, Ill.

WANT: Back issues RMC, MR, Model Trains. Send for list. Bob Whalen, 908 Cottage, Crawfordsville, Ind. 47933.

WANT: Pittman DC-195A motor. Must be good cond. Deane Mellander, 2705 Newton St., Silver Spring, Md. 20902.

WANT: Tender for Lionel 700. Will swap 700 eng. only for Ives trains. Edward Wichmann, New Lenox Station, Lenox, Mass. 01240.

EXCHANGE: U. S. stamps & covers FOR: choice HO locos & new Athearn kits. Send lists. Merrill W. Bodine, 2716 Hampshire Rd., Ann Arbor, Mich.

EXCHANGE: X2F-NMRA cplrs. for Kadee MK or MKD FOR: Good runing cond. HO steam locos 4-6-0, 2-8-0 & smaller, Athearn geared GP-9 & RDC-3. John Nixon, 10410 E. Jefferson, Apt. 6-K, Detroit, Mich. 48214.

WANT: United Virginia and Truckee 4-6-0 HO loco. Price & cond. Gil Holoway, 3701 Valley Dr., Midland, Mich.

EXCHANGE: Mantua Sharknose diesel, customline NS sws., GP-20 motor units, exc. cond. FOR: Central Valley cars and cond. Also want Lionel "O" GG1 & PennLine HO GG1. Gerry Hoeltzel, 1013 Gordon St., Midland, Mich. 48640.

WANT: Complete or single issues early Lionel mag., Lionel Model Builder mag & Toy Trains periodicals. Alden Miller, 3212—34th Ave. So., Minneapolis, Minn. 55406.

WANT: 2 pr. Perma-blt. #1041 box car ends. Miller pwr. units (motors) for their switcher trucks. Loren Sandstrom, R.F.D. 2, Box 90, Orrick, Mo. 64077.

EXCHANGE: HO United CB&Q 4-8-4, USRA 2-8-2, USRA 0-8-0, Milw. 0-6-0, CB&Q GP 20, Akane 2-10-2, Bowser metal 4-8-2, RTR. FOR: New HO United U.P. 4-8-4, 4-6-6-4, 0-6-0, 2-8-0 eng. Also Athearn & Roundhouse CB&Q frt. cars FOR: U.P. Jim C. Seacrest, 2750 Woodscrest, Lincoln, Neb. 68502.

EXCHANGE: HO equip. or cash FOR: John A. English (Hobbyline) Alco Road diesels, Tenshodo, EMD FT A&B units, NYO&W Rwy. pix, timetables, rule books, etc. Jerome A. Rosenfeld, 133 Dulles Dr., Dumont, N.J. 07628.

EXCHANGE: Tan 253 FOR: any orig. pnt. 253E. Also exchange N&W 746 FOR: 250E Hiawatha or Std. F. Fatell, 14 Greydanus Pl., Fair Lawn, N. J. 07410.

WANT: Steam loco. ½" scale, ¾" scale or No. 1 ga. Send photo & price. Also want any wide ga. Toy pass. cars over 17" long. Paul Sauls, 17-42 Hunter Pl., Fair Lawn, N. J.

EXCHANGE: 2 pwr pks. FOR: DPDT &/or SPST toggles, used cab control pk., track terminal wire connectors. SAE. Kevin Brady, 16 Blue Ridge Ave., Green Brook, N. J. 08813.

EXCHANGE: Mantua Roundhouse Goat 0-4-0 kit. FOR: Mantua Little "B" kit #206. Walthers Alco switcher or Kemtron Baldwin switcher. J. Koenig, 63 Passaic Ave., Hasbrouck Heights, N. J. 07604.

EXCHANGE: Lionel O 256 pass. set, 254 pass. set, 260 frt. set, 255 pass. set, UP yellow aniv. set, PRR streamlined cars, CPR set, 6464 box cars. FOR: Ives, Amer. Flyer pre-1942. Joseph Ranker, 91B Lakeview Ave., Leonia, N. J.

WANT: NWSL Crown-Williamette 2-6-6-2T, United 3 truck Pacific Coast Shay, orig. United B-2 narrow ga. Shay. Capt. J. Dunipace, 4214B Falcon Cts. N., McGuire AFB, N. J. 08641.

EXCHANGE: My diesel prints FOR: your steam prints. Prefer NH, NYC & Penn. Also artic. of other rds. Stephen Clifton, 800 W End Ave., New York, N.Y. 10025.

EXCHANGE: European models; Pocher, Lilliput, Hag, Rivarossi, Lima, etc. FOR: Traction or what have you. SAE. George Bregman, 1977—86th St., Brooklyn, N. Y. 11214.

EXCHANGE: F-9's, GP-20's, single gear dr., F-9 dual gear dr. All units Tyco, good running cond. All letters ans. FOR: What are your needs? Chuck Carter, 460 Terrace Blvd., Depew, N. Y. 14043.

EXCHANGE: Tyco HO Mikado Pennsy. Steamer, Tyco GP-30, Diesel, UP. Athearn F7 diesel AB units, N. H. Union Pac. pass. cars, 30' flex. track, KF pwr. pk. Model 800 dual control, box cars, tanks & cabooses. FOR: Fairbanks Morse Trainmaster, good working order. John Casiano, 49 W. 69th St., New York 23, N. Y.

EXCHANGE: Kidder 2-6-0 brass tanker, exc. running cond., Hi-Baller comb., Kemtron parts, marker lites; piano wire handrails, soldered. FOR: brass caboose, Ambroid braced reefer or Watermelon kits. F. Gotthelf, 101 Elwood Ave., Mt. Vernon, N. Y.

EXCHANGE: Lionel cat. in exc. cond. 1928-1932 to date. FOR: Lionel diesels or 1950 #773 or #250 Hiawatha. Items must be exc. cond. Al J. Sitowski, 5210 Broadway, New York, N.Y. 10463.

EXCHANGE: "S" ga. Rocket A-A, Santa Fe Blue A-B-A, Wilson Turntable, 0-8-0, 0-6-0, Rex Docksider, 85', Slyvania obs. 50'. Exc. cond. 172 brass on fibre full sections. SAE. FOR: diecast bullet, N.P. equip., Nord gearing. Ralph Aiken, 16 Thompson Court, R.D. #1, Rensselaer, N. Y. 12144.

EXCHANGE: Lionel 800 ser. cars; 600 ser. cars; 1600 ser. cars; 2600 ser. cars. SAE for list. FOR: Lionel 225E or 226E. Russell Rawley, 112 Center St., Waverly, N. Y. 14892.

EXCHANGE: Rare out-of-production United Crown DM&IR M-4 2-8-8-4, slightly abused. FOR: New, unused United Crown N.P. A-5 4-8-4. Details in first letter. Tom Hoff, 815—2nd Ave., N.E., Jamestown, N. D. 58401.

EXCHANGE: Lionel equip. 1934-1948 era O & 072 in near mint cond. FOR: Unused PFM HO locos, Suydam interurbans. SAE for list. Stephen N. Bowen, 1180 Gordon Rd., Cleveland, Ohio 44124.

EXCHANGE: Akane & United, exc. cond., unpntd. Brass Eng. FOR: Old time Log, Mining, Box & Flat Cars. SAE or lists exchanged. John E. Tippin, 2324 Fulton St., Toledo, Ohio 43620.

WANT: Period HO, particularly locos. Mantua Belle, etc. Pnt. & detail cond. not important, but must be repairable. State price first letter. All replies ans. W. R. Stone, 351 Morton, Ashland, Ore.

EXCHANGE: Lionel "O" 2530 bagg. 2383 ABA diesels X6454 box, 3484 box, 6346 Alcoa, others. FOR: 2331, 2341, 2358 locos; 400, 2550 ser. Budd; 6536, 6736, 6446 hoppers. R. E. Campbell, 19 W. Turnbull, Havertown, Pa.

WANT: Max Gray UP caboose (911), PRR R50B express reefer (955), PRR N5 caboose (905) in O ga.; UP caboose, 50' express reefers in HO (Metric Models). Elmer Steuernagel, 515 Miranda Rd., Pittsburgh, Pa. 15234.

EXCHANGE: Radio Control transmitter & recr., Citizen-Ship Rad. Corp., prtd. circ., assembled. For Quality HO, HOn3, O locos & cars; HOn3 track & sws; loco or car Cyclopedias, RR books. A. W. Kovacs, 510 S. Franklin St., Wilkes-Barre, Pa. 18702.

EXCHANGE: Lionel O #2341, 2331, 2355, 2363, 2031, & others. FOR: 250E, 752E, 2356, 665 & 6464-100, 150, 175, 800 or what have you? List for list or SAE. Frank J. Rash, 236 Lee Park Ave., Wilkes-Barre, Pa. 18702.

EXCHANGE: AHM 2-8-8-2 (HO) Exc. cond. FOR: Scale S ga. kits &/or well-blt. S scale equip. R. Karnes, 3223—12th Ave. N., #2, Renton, Wash. 98056.

WANT: C.E.R.A. Bulletin #97 "Trolley Sparks" Elect. Rwys. of Wisconsin; also August 1947 issue of Trains mag.; ERA Headlights April 1958. Should be in reasonably good cond. William F. Nedden, 2137 N. 41st St. Milwaukee, Wis. 53208.

WANT: Frame-Craft kit to conv. MDC 0-6-0 to 2-8-0. Either complete kit or Frame Assy. kit acceptable. S. M. Peeler, 263 Arby Bay, Winnipeg 16, Man. Canada.

WANT: Tootsietoy HO scale bus & Metro vans, any cond. provided unbroken. Can exchange for the above—European HO equip. State price & cond. Jens-Jorgen Juel Pedersen, 2 Egemosen, Skodsborg, Denmark.

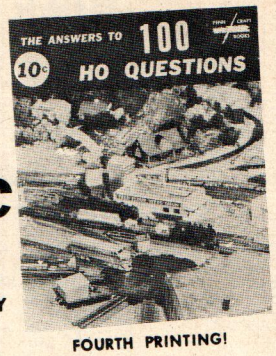
EXCHANGE: All-Nation O ga. EMD 1000hp EMD switcher 4-whl. dr., pntd. & lettered Union Pacific. FOR scale length O ga. corrugated streamline cars or kits. K. G. Turk, 10 West Close, Heath End, Farnham, Surrey, England.

EXCHANGE: 5x9 HO layout. Tru-Scale rdbd., NS rail, 10 sws., turntable, 90% scenicked. FOR: Tru-Scale ready sws. & milled rdbd. Jack Batson, 9022 S. Brock Ave., Downey, Calif.

EXCHANGE: 8x10 B&W photos, scratch const. notes & measurements of late 1800 Calif. gold mining structures, Boomtown bldgs., RR structures & Ghosttowns. FOR: PFM "Reno"; 2-6-0 Mogul (State type), or what have you? Robert Thomasson, 400—8th St., Edwards, Calif.

EXCHANGE: Penn Line GG-1 & Penn Line T-2 FOR: What have you? Joe Thomson, 853 E. Holt, Ontario, Calif. Space 10.

Puzzled About HO?



10c

DIRECT OR AT YOUR LOCAL HOBBY DEALER

FOURTH PRINTING!

Now, in one handy little 8 page booklet, are 100 of the most common questions which we've run across on the subject of HO gauge model railroading. If you're a beginner in the hobby, you'll find this booklet a big help. Tells you where to buy, how to start, early problems. It may save you many times its low price. It's by the editors of RAILROAD MODEL CRAFTSMAN.

DEALERS

You've asked for this booklet. Gives new HOers the basic facts they need. Can cut question time during peak sales periods when you're busy. Available in packages of 25 and 50. Designed for your promotional efforts. HIAA movie tie-in.

PENN CRAFT BOOKS

P. O. BOX C, RAMSEY, NEW JERSEY

PAUL RAHAM'S S GAUGE SUPPLIES

40 McCowan Rd. Scarborough, Ont.

Canadian Mail Order Service in ALL Scales And Specializing in "S".

ALL GAUGE CATALOGUE..... $1.00

READY BY AUGUST 1st
TREBLE-O-LECTRIC MODELER'S HANDBOOK

Contains 22 layout diagrams, equipment photos, introduction to OOO by Bill Schopp. Layouts are usable by HOn2½ modelers, Lone Star, Minitrix, Rapido N Gauge, Eggerbahn, AHM HOn2½. Rolling stock plans, track requirement charts.

75c

HAMMOND & MORGAN
CONTROL MANUAL AND CATALOG

H&M's new Control Manual and Catalog introduces to the American modeler one of the finest quality power-pack and electrical control systems yet made available. Acclaimed in England and other countries by foremost modelers. Includes information on the outstanding SM3 Switch Machine. A handy reference for the serious modeler.

25c

SELF ADDRESSED ENVELOPE BRINGS HO SPECIAL SALES SHEET OR OUR SPECIAL SALES SHEET ON OOO. Please Specify.

WHEN IN NEW YORK FOR THE WORLD FAIR, STOP UP AND SEE OUR LARGE OPERATIONG OOO LAYOUT.

INTERNATIONAL MODELS, INC.

33 UNION SQUARE WEST NEW YORK 3, N. Y. 16th St. & Bdwy

RMC CLASSIFIED ADVERTISING SECTION

COMMERCIAL CLASSIFIED ADVERTISING, rate 20c per word. Count all initials as words. Zone or Zip number free. Fourth insertion of same ad free. Ads are payable in advance.

CLASSIFICATIONS: Dealer Comm'l, Custom Bldg., Railroadiana, Collectors, For Sale & Wanted, Ships, Airplanes, Other Models, Help Wanted, Positions Wanted, Business Opportunities, Schools, Misc. Be sure to specify which.

DEADLINE: Commercial Classified ads must be at our office by 5th of month two months preceding date of issue. Example: ads for June issue must be at Ramsey, N. J., by April 5.

SEND ALL ADS TO: Classified Ad. Dept. c/o RAILROAD MODEL CRAFTSMAN, P. O. Box C, Ramsey, New Jersey 07446. Ads sent to other departments may be delayed or lost.

DEALER CLASSIFIEDS

PASSENGER CARRYING MINIATURE TRAINS. Illustrated literature covering Plans and Kits: $1.00. Dudley's Trains, 901 Cole Dr., Huntsville, Ala. 35802. 10-65

CANADIANS MAIL ORDER SERVICE—Write for catalog. Harbern Model Supplies. 661 Simpson Ave., Winnipeg 15, Man. 9-65

LIONEL REPAIR PARTS FOR SALE $11,000 worth. Will sell the lot for only $3,000—plus used Lionel Locomotive cars, etc., also Standard Gauge. J. Gaidar, 2349 W. 95th St., Chicago 43, Ill. 9-65

UNUSUAL ITEMS. Lionel 027 — O — Super O — 072. New—Used—Trade-ins—Sales—Service—Parts. Gargraves Trackage. Variety of HO. Catalog 10c. Riedel's. 1040 Babbitt Rd., Euclid, Ohio 44132. TF

SHORT SUPPLY MAGAZINE LIST. Railroad Model Craftsman, others, railroad books. Send SAE. Railroad Model Craftsman, 6 E. Main St., Ramsey, N. J. 07446.

PRECISION MODEL SCALE 12" long stainless steel with "O", "S", "HO", "TT", "N" & metric scales. Track gauge markings and complete grade calculation table, $3.50. Send S.A.E. for list of industrial cleaning & finishing solvents & many other items ideally suited to model work. A. C. Hirschle, Box 99, Wayne, Pa. 19087. 8-65

TRACTION—RTR freight motor cars, trolleys, craftsman's kits, power units, motors. Also Hi-Line wooden freight cars. Send SAE for list. Pacific Traction, P.O. Box 17133, San Diego, Calif. 92117. 8-65

BARGAINS "HO" and "O" Trains, parts, magazines. List 10c. A. D. Wellborn, P. O. Box 2487, Fort Worth, Texas 76101. 8-65

ATTEND OUR RAILROAD SHOW IN TEXAS: 300 feet track. Hobbyland, San Antonio. TF

HARD-TO-FIND TOOLS for modelers, craftsman, repairers. Free catalog. Brookstone Company, 15 River, Worthington, Massachusetts 01098.

LIONEL TRAINS. Complete supply, many discontinued items. Bargain list 10c. Lionel Catalog 35c. SAE your list. Pelican Model Shop, 2815 Main St., Baton Rouge, La. 11-65

FOR SALE AND WANTED

ELECTRICAL PARTS AND CIRCUITS. Many bargains. SAE for details. Joe Pollard, 340 S. Wisconsin, Villa Park, Ill. 60181. 10-65

FOR SALE: Max Gray Locomotives and Cars. New in boxes—O gauge. SAE for list. Ken Hyslop, 125 Lordship Rd., Stratford, Conn. 06497.

WANTED—Photographs, U. S. & Canadian freight cars 1900-1930 era. 8 x 10's with clear lettering preferred. Pay top price or swap car kits for pix. Truss Rod Palace Horse Car needed. Canadian Railway Model Company, 116 Fortrose Cres., Don Mills, Ontario, Can.

RAILROADIANA

PRINTED PASSES, envelopes, letterheads, rubber stamps. New Catalog available for 10c (refunded) Railroad Printers, 70S Roslin St., Boston, Mass. 02124. 10-65

PRINTED PASSES for your railroad. Samples free. Sargent's, 1502 Crockett, Amarillo, Texas 79102. 11-65

NEW YORK ONTARIO & WESTERN RY 1898 Employee Timetable reproduction, listing Chicago through trains, Vestibule Express, etc., data. Authentic and rare. $2.00 ppd. Model Craftsman Publishing Corp., 6 East Main St., Ramsey, N. J. 07446. TF

PRINTED PASSES, LETTERHEADS, ENVELOPES. New cuts available. Custom Service, Reasonable Prices. 10c for samples. (Refundable). Michaud, Box 834, Downey, Calif. 9-65

ENGLISH RAILWAY BOOKS. Your enquiries, currency (or check) welcome. List available, priced simply. Clyde, Box R, The Mount, Ewell, Surrey, England. 11-65

CUSTOM BUILDING SERVICES

SCALE O GAUGE. Loco's, parts, kits, cars, etc. Machining, Two Railing, Conversions, Custom Building & Painting. Trade-ins Accepted. Olney Miniature Train Shop, 737 Hoffnagle St., Phila., Pa. 19111. Phone: FI 2-6304. TF

SILK SCREEN LETTERING. Custom Work. Low Cost. Also Prototype Car, Reefer Sides, Brick, Stone Siding. Sample 25c. Shanty, Box 9231, Mobile, Ala. 36609. TF

NEED A SPECIAL PART OR GADGET FOR YOUR LAYOUT? Model machining done. Lathe, mill or drill work done in our machine shop. Send drawing with all specifications for estimate. No job too small. Work guaranteed. S. Brown, 18944 Strathern St., Reseda, Calif.

CUSTOM PRECISION MACHINE WORK. Send detailed sketch for quote. Dick Martin, 1124 W. Ternero, Tucson, Ariz. 85704. 11-65

GIANT HO GREAT NORTHERN LAYOUT, locomotives GN and others, switches, accessories, parts, tools, camera equipment. Equipment all above average workmanship and condition. Collection includes PFM, LMB, other top brands. All equipment from the collection of the late Sherman E. Dance. Send stamped addressed No. 10 envelope for complete list. Mrs. Isabel Dance, 36 Jackson Ave., Haworth, N. J. TF

FOR SALE: RAILROAD PAINTINGS, Charles Henry, 2820 Bailey Ave., Bronx, N. Y. 10463 9-65

FOR SALE: NEW AND USED AF "S" Gauge, Lionel "O" and 027. Also some HO equipment. James Stolfa, Ardmore, Okla. 73401.

FOR SALE: Old Trains. Standard, Number One and O Gauge Locomotives, Cars, Accessories, 50 Locomotives, 200 Cars. Lionel, Ives, Electoy, Bing, American Flyer, Buddy L, others. Items sold on T.C.A. standards. Visitors welcome. Large S.A.E. for list. Russ Park, Box 2, Dover, Ill. 61323.

LARGE LIONEL O GAUGE COLLECTION 1930-1962. SAE for lists. Rolf Hilbert, 671 Knickerbocker Ave., Brooklyn, N. Y. 11221.

TOY TRAIN COLLECTORS

5 DIFFERENT NEW LIONEL CATALOGS $2.50, 5 different American Flyer Catalogs $2.50. J. Gaidar, 2349 W. 95th St., Chicago 43, Ill. 9-65

OLD TRAINS, all kinds, bought, sold, repaired. Trolleys and catalogs wanted. What have you or what do you need? Will trade new Lionel HO. Frank Rochat, P. O. Box 241, Carlstadt, N. J. TF

STANDARD GAUGE DELUXE TOY TRAINS wanted—Alden Miller, 3212—34th Ave. South, Minneapolis, Minn. 55406. TF

TOY TRAINS REPAIRED. Obsolete models a specialty. Motors rewound. Any gauge. Scale or Tinplate. Choo Choo Charlie, 8924 Crosley, Detroit, Mich. 48239. 11-65

HELP WANTED

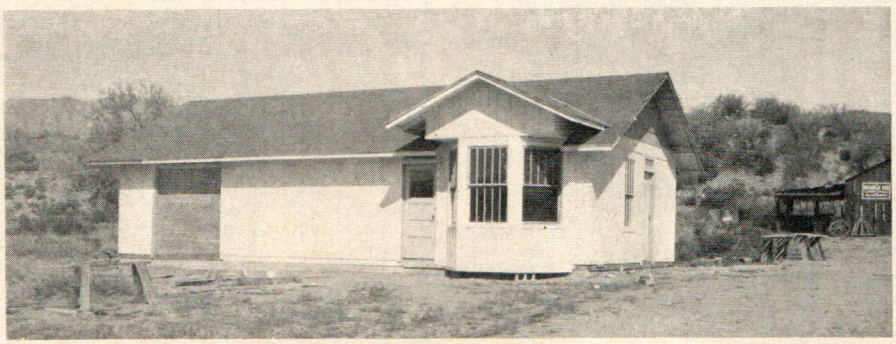
EDITOR ASSISTANT. Self starter. Full knowledge of scale model railroading. Must have strong, active how-to background. Newspaper or publishing background preferred. Send photo and complete resume detailing hobby and editorial background, salary requirement. All replies confidential. Address all replies to: Mrs. Naomi Drake, c/o Model Craftsman Publishing Corp., 6 East Main St., Ramsey, New Jersey, 07446.

Bumble Bee Boom

A belated thanks for the color print of the old Ramsey depot. This will surely hang in a place of honor in the Bumble Bee depot, now nearing completion. It is modeled after one of Lloyd Giebner's models which ran in RMC and we used the model instead of a blueprint. The building is of very solid construction, to allow for housing almost any amount of weight. It is 20' x 40'. It will have a freight platform on the rear end to accommodate wagon freight.

As you can see in the picture, there is a freight door on the passenger side to handle baggage. A cinder passenger walk will be built up to six inches of the door thresholds. In front of this will be the mainline track for our outdoor miniature railroad. A good many details will be added to the outside for realism. The white paint is a prime coat to preserve the wood until we are ready to give it the final Santa Fe yellow. Work has stopped now until the fall. No one wants to work during the summer here. We already have a lot of stuff in storage here which will fit into the picture.

Charlie Penn
Bumble Bee, Arizona



The new depot at Bumble Bee, Arizona, was modeled from a Lloyd Giebner HO construction article appearing some years ago in RMC. Depot will house Penn's colection of Americana and railroadiana.

Many of Lloyd Giebner's superb HO models now repose in Bumble Bee, some 50 miles north of Phoenix on the old Black Canyon Highway.

RAILROAD MODEL CRAFTSMAN

1965 MERCHANDISING *Survey*

HELP US TO SERVE YOU BETTER. . .

Model railroading has undergone a tremendous change during the past few years due to a wide variety of factors. The editors of RAILROAD MODEL CRAFTSMAN want to know better just what these changes have done to the thinking of our readers. It's essential that we have at our fingertips accurate and impartial information concerning the likes and dislikes of our readers. We want to know how you like the products now available at hobby shops and if the manufacturers and stores are serving you satisfactorily. We also want to know how you like RAILROAD MODEL CRAFTSMAN and want your suggestions on how it can be further improved.

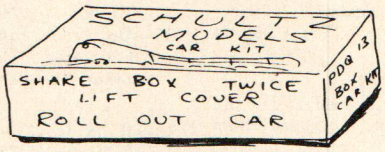
The questionnaire on these pages is the most comprehensive one we have ever compiled and we solicit your response. Your name and address is not needed on the questionnaire. All we ask is that you fill in those questions pertinent to you. Your additional comments are welcome on a separate sheet of paper.

AS AN ADDED INCENTIVE to everyone sending in a completed questionnaire, RAILROAD MODEL CRAFTSMAN will send a free Model Railroad Charter, suitable for framing, size 8½x11 to everyone sending in an addressed envelope (no return stamp is needed but please be sure envelope measures 9½ inches in length).

It is not necessary to tear out the page from the magazine. Type or neatly write the question numbers and answers only on a post card or sheet of paper. Or make a photo copy by any method.

Please mail all replies not later than Sept. 15, 1965, to:

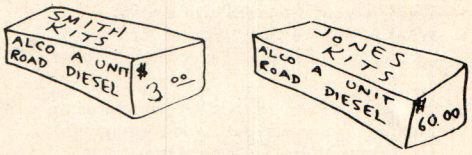
RAILROAD MODEL CRAFTSMAN
1965 Merchandising Survey
P. O. Drawer C
Ramsey, New Jersey 07446



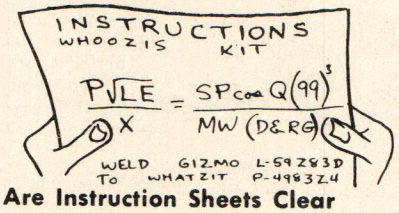
*

Are Present Kits Satisfactory

*



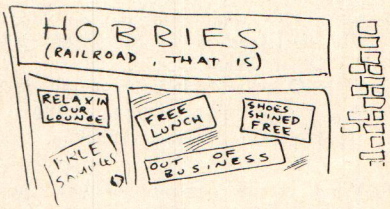
Type of kits preferred



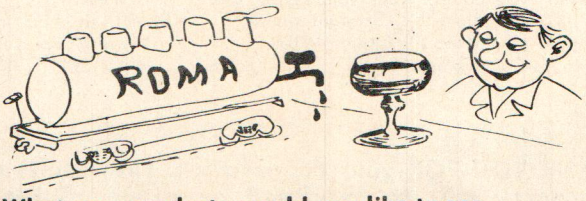
*

Are Instruction Sheets Clear

*



Is dealer service satisfactory



What new products would you like to see

turn page for questionnaire . . . fill in and return

RMC 1965 MERCHANDISING SURVEY

1—Age: .....
2—☐ Married ☐ Single ☐ Male ☐ Female
3—Occupation: .....
4—Are you a regular reader of Railroad Model Craftsman: ☐ Yes ☐ No
How Long? .....
5—How do you receive your copy: ☐ Hobby Shop ☐ Subscription ☐ Newsstand

6—Education: ☐ Grade School ☐ High School ☐ College (degree) .....
7—Occupation: .....
8—How long have you been a railroad modeler? .....
9—How much do you average per month on purchases of model railroad supplies: ☐ $0-$5 ☐ $5-$10 ☐ over $10
10—What is your favorite scale: ☐ HO ☐ O ☐ S ☐ TT ☐ 000/N ☐ Other. What: .....

11—Where is your layout located: ☐ Attic ☐ Basement ☐ Garage ☐ Spare room ☐ Elsewhere. Where? .....
12—How large is your layout in square feet: .....
13—What is the minimum radius of your main line: .....
14—What is your standard size switch: .....
15—What is your favorite type of locomotive: ☐ Steam ☐ Diesel ☐ Electric ☐ Trolley

16—Do you adhere to NMRA standards in building your layout and equipment: ☐ Yes ☐ No ☐ Don't know
17—Where do you buy most of your model railroad equipment: ☐ Local Hobby Shop ☐ Mail order hobby shop ☐ Discount store
18—Is your hobby dealer familiar with his products: ☐ Yes ☐ No. If not, does it make any difference to you: .....
19—Do you buy: ☐ For Price ☐ For Quality ☐ Other reasons. What: .....

20—What trackwork do you use: ☐ Sectional track ☐ Prefab sections on tie strip, cork, rubber, or wood roadbed?
21—What type rail do you prefer: ☐ Brass ☐ Nickel silver ☐ Steel ☐ Stainless steel ☐ Other. What .....
22—If in HO, what code rail do you use: ☐ 100 (standard) ☐ 70 ☐ 55 ☐ 40 ☐ Other. What .....
23—If in O, what code or type rail do you use: ☐ 172 ☐ 158 ☐ 126 ☐ 100 ☐ Tinplate ☐ Other. What.....

24—What is the capacity of your power pack, if D.C.; in amps: .....
Is it adequate: .....
What capacity: .....
25—What features will you want in your next power supply: .....
26—What type control does your layout use: ☐ Cab ☐ Block ☐ Straight power supply ☐ Astrac ☐ Other: What.....
27—Are you a club member: ☐ Yes ☐ No

28—What type surface is your layout: ☐ Hard flat top ☐ Open benchwork
29—What type scenic mix do you use: ☐ Hobby shop commercial mix ☐ Paper mache ☐ Home plaster mix ☐ Others: What .....
30—What improvements would you like to see in car kits: .....

31—What improvements could be made in RTR cars: .....
32—What improvements could be made in RTR locos: .....
33—What improvements could be made in kit locomotives: .....
34—Should universal coupler pockets be included on all HO cars and locos: ☐ Yes ☐ No ☐ No opinion
35—Do you replace NMRA type horn couplers on purchased equipment with other couplers: ☐ Yes No

36—If 35 is yes, with what: ☐ "Standard" X-2f type ☐ Kadee ☐ AAR ☐ Other: What .....
37—If in HO, how many locomotives did you buy last year: .....
38—If in HO, how many cars did you buy last year: .....
39—If your present layout uses brass rail, do you intend converting to nickle silver: ☐ Yes ☐ No
40—How do you apply model railroad paint: ☐ Brush ☐ Spray gun ☐ Air brush

41—What type finish do you prefer on car and loco kits: ☐ Prepainted and lettered ☐ Left raw for the modeler to paint and letter
42—Do you find that sprung trucks give better operation: ☐ No ☐ Yes ☐ No opinion
43—What is your favorite steam loco: .....
44—What is your favorite diesel loco: .....

45—What one item would you like to see made commercially available, more than anything else: .....
46—Does anyone else read your copy of Railroad Model Craftsman: ☐ Yes ☐ No: If yes, how many: .....
47—Would you like to see a pre-packaged, color-coded male-female plug type wiring system adaptable to any layout, for simplified wiring: ☐ Yes ☐ No

48—Would you like more multi-part operating HO accessory kits: ☐ Yes ☐ No. If yes, what: .....
49—Do you use any power tools: ☐ No ☐ Yes: What: .....
50—If in scale 0, how do you prefer your locos: ☐ Zamac ☐ Built-up brass ☐ Brass or bronze sand cast ☐ Other: What: .....
51—If in HO narrow gauge, what track width do you prefer: ☐ 36" ☐ 30" ☐ 24" ☐ Other: What: .....

52—When buying wood type kits, do you prefer them: ☐ With trucks and couplers included of the manufacturers choice ☐ Less trucks and couplers permitting you to buy your own, probably at an overall higher unit price than the complete kit would have cost.
53—Do you intend changing to a different scale: ☐ Yes ☐ No. Why: ..... What is your present scale: ..... What are you switching to: .....

54—Which RMC column do you enjoy most: .....
55—Who is your favorite RMC author: .....
56—Is your train room airconditioned: ☐ Yes ☐ No
57—If in S or 0 tinplate, what improvements would you like to see: .....
58—If in HO, do you care what standards equipment is made to as long as it operates satisfactorily on "standard" HO track: ☐ No ☐ Yes.
Comment: .....

59—Do you operate an HO or O "Model Motoring" or slot car system with your railroad: ☐ No ☐ Yes:
Comment: .....
60—Do you buy by: ☐ Price ☐ Word of Mouth ☐ Advertisement
61—Do you favor high or low gear reduction in locomotives (high gives slower speeds): ☐ High ☐ Low ☐ No opinion
Comment: .....

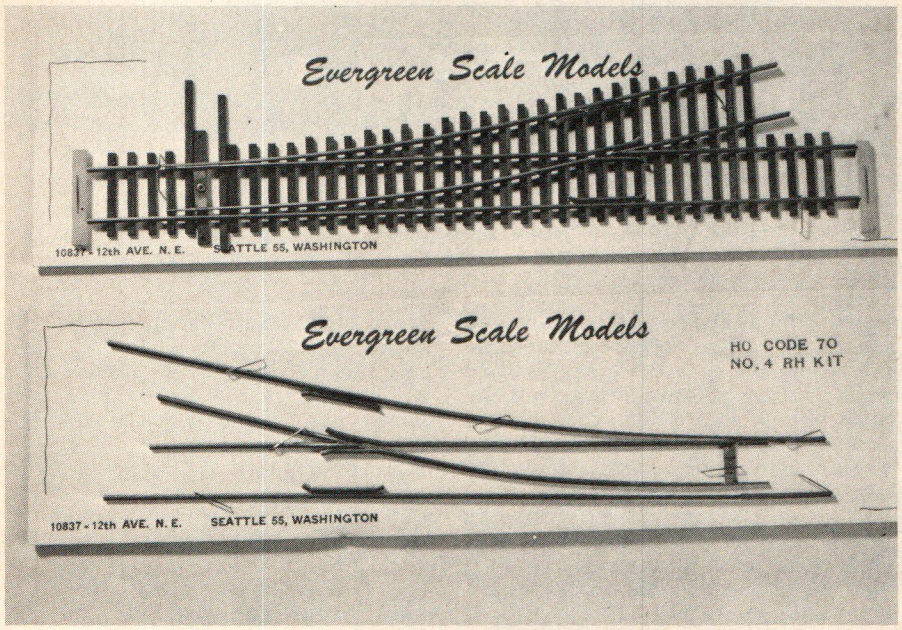
COMMENTS

ADDITIONAL COMMENTS are welcome but please put them on a separate sheet of paper. Your name and address is not required.

THANK YOU FOR your cooperation. The results of the survey will be tabulated by a special team and the results made available to the industry, so the industry may serve you better.

Please mail all replies not later than Sept. 15, 1965, to:
RAILROAD MODEL CRAFTSMAN
1965 Merchandising Survey
P. O. Drawer C
Ramsey, New Jersey 07446

TEST TRACK



Evergreen Scale Models HO assembled switch No. 5 and No. 4 switch kit. Switches are made with code 70 nickel silver rail and feature soldered construction. Assembled switch is white glued to wood ties.

Code 70 Switches: HO

Mfd. by Evergreen Scale Models 10837—12th Avenue N. E., Seattle 55, Washington.

Evergreen Scale Models has sent in samples of their code 70 nickel silver turnouts. Received were a completely assembled No. 5 left hand switch and a No. 4 right hand switch kit. Also offered are switch kits in Nos. 4, 5, 6, and 8, right or left hand plus eyes in Nos. 4 and 5 only.

Evergreen's Ready-Switch is well made with long, nicely shaped points. The rail base at the points has been filed away and points hit the rail with no gaps or bumps. The points are connected with a piece of tin plate, riveted to a fibre throwbar. The switch was checked for gauge and flangeways with only one very small and minor tight spot in the points, which would be remedied before the switch was put into operation.

The Evergreen Ready-Switch is cemented to the individual wooden stained ties with white glue. Evergreen Ready-Switches list at $3.95 each, left or right, in No. 5 size only.

The switch kit does not include ties but requires only spiking in place to use. All soldering of frogs, points, and guard rails is done at the factory. Workmanship is identical to the built-up switch. All switch kits are $2.25 each excepting the No. 8 which is $2.50.

Evergreen also offers HOn3 switch kits, No. 5 or No. 6 in right and left. at $2.25 each. The nickel silver rail used, incidentally, has a slight brassy color. The quality of these switches is very good. Evergreen Ready-Switches should not be confused with Tru-Scale Ready-Track and Ready-Switches, which are made with code 100 rail and have been on the market for several years.

Southern Pacific T-28 4-6-0: HO

Imported by West Side Model Co., 1801 Dalehurst Avenue, Los Altos, California 94022.

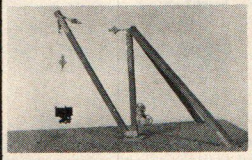
The first standard gauge HO product of this company is another western prototype, an SP 4-6-0, class T-28, series 2311-2352. The original engines were built by Alco's Brooks works, and by Baldwin, from 1907 to 1911. Most stayed on SP property and retained the same numbers throughout their lifetime. An exception were a few that went to the Southern Pacific of Mexico for a time with different numbers. After being restored to the SP roster with their original numbers, they still carried their Mexican modifications. The most noticeable of these were ladders from pilot to running boards. The model represents the conventional version.

The T-28 model is of sheet brass construction supplemented with numerous lost wax castings. Parts were all squarely and neatly mounted and soldered in place. When checked against photos of the prototype, the model appeared to be a very close

MODEL
STRUCTURAL SHAPES
OF BRASS
LIGHT
ANGLES — BEAMS — CHANNELS
H COLUMNS — TEES — ZEES
All sizes to any scale — made in U.S.A.
Flat, Round & Square Bars • Sheet Stock & Tubing
SPECIAL SHAPES CO.
5007 BELMONT RD., DOWNERS GROVE, ILL.
See your dealer or write for Catalog

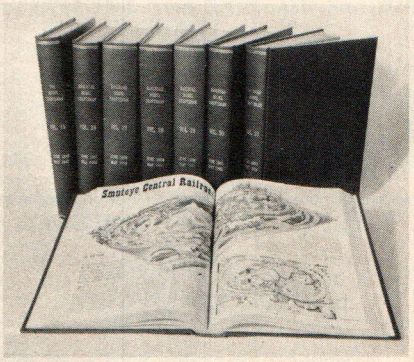
Local dealers are easy to find when you use the Railroad Model Craftsman Localized Dealer Service.

NEW NEW NOW
STIFF LEG DERRICK
NEW...



THANKS for your patience while we overcame problems making myriads of cast metal parts (in Iron Horse Miniatures tradition). An interesting model with many uses on every layout. Complete kit includes working blocks, pulleys, etc., and all the hardware & wood parts. The winch is a model by itself! HO Stiff Leg Derrick kit — $2.49 (working).
Our Colorado Midland 2-8-0 Loco is expected in time for mid-July delivery. By the same maker as our 2-6-0, and as finely detailed . . . a fitting companion, with the same top quality.
SEE THEM AT YOUR DEALERS, if necessary order direct. Send 25c for catalog.
Model Engineering Works
Box 261 "Unique Miniatures" Monrovia, Calif.

NOW—BOUND VOLUMES



Handsomely bound in durable maroon cloth, stamped in gold, to create beautiful library volumes of your favorite model railroad magazine. For those who demand the finest in reference data, these bound volumes of RAILROAD MODEL CRAFTSMAN are unsurpassed. Quantities are limited. A very few additional volumes of other years are available. Write for information.
THE FOLLOWING BOUND VOLUMES NOW AVAILABLE (SOME IN EXTREMELY SHORT SUPPLY.. (RMC Volume numbers run from June to May of following year):
Vol. 26—June 1957 thru May 1958 $10.00
*Vol. 29—June 1960 thru May 1961 10.00
*Vol. 30—June 1961 thru May 1962 10.00
*Vol. 32—June 1963 thru May 1964 10.00
ORDERS NOW BEING ACCEPTED FOR SUMMER DELIVERY
*Vol. 33—June 1964 thru May 1965 10.00
*Includes annual index
Above prices include postage in USA and Canada. Foreign orders please include 50c per volume additional.
MODEL CRAFTSMAN PUBLISHING CORP.
6 East Main St. Ramsey, N. J. 07446

RAIL—3 FOOT LENGTHS

HO Gauge .100 high, 99 feet, Brass $3.75
HO Gauge .100 high, 99 feet, Steel 2.60
HO Gauge .100 high, 99 feet, Nickel Silver 5.95
S Gauge .125 high, 99 feet, Steel 4.50
O Gauge .172 high, 99 feet, Brass 9.95
O Gauge .172 high, 99 feet, Steel 7.95
O Gauge .172 high, 99 feet, Nickel Silver 15.00
Postpaid in U. S. *Dealer Inquiries Invited*

MODEL RAILROAD PRODUCTS
1379 Mineral Spring Ave. N. Providence, R. I.

PLEASE BE PATIENT

THEY WILL BE HERE SOON

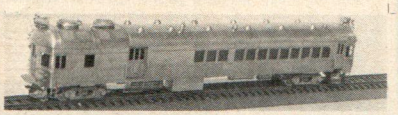
- Smooth Side passenger cars in HO
- Full scale length
- Highly detailed underbody
- Wood, metal and plastic kit
- Operating full with diaphragms
- Thirteen different road names

See July R.M.C.

Lets hear from you "S" gaugers. If demand warrents, we will produce the same quality line of cars in "S" gauge.

SMOOTH SIDE MODELS
1563 - 76th STREET
BROOKLYN, NEW YORK 11228

Back in Stock . . . .
HO Brill Gas-Electric Car

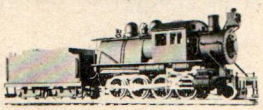


After a long absence, we have these popular branch line Passenger-Baggage Gas-Electric cars back in stock. All Brass, Powered, Beautiful Detail, Unpainted, priced at $37.50. Supply IS limited!

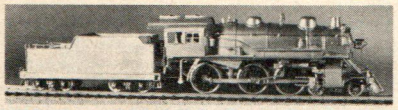
24 pg. **Structure & Bldg. Materials Catalog.** Illustrated, plus modeling information..50c
22 pg. **Interurban Modeling Catalog and Manual.** Prototype & Overhead Wire Information 50c

E. SUYDAM & COMPANY
BOX 55 • DUARTE • CALIF. 91010

LIMITED AUGUST SPECIALS



Camelback Fine Brass 2-8-0 ptd.....22.88



NYC Class F-12 4-6-0, Brass Finish 33.88

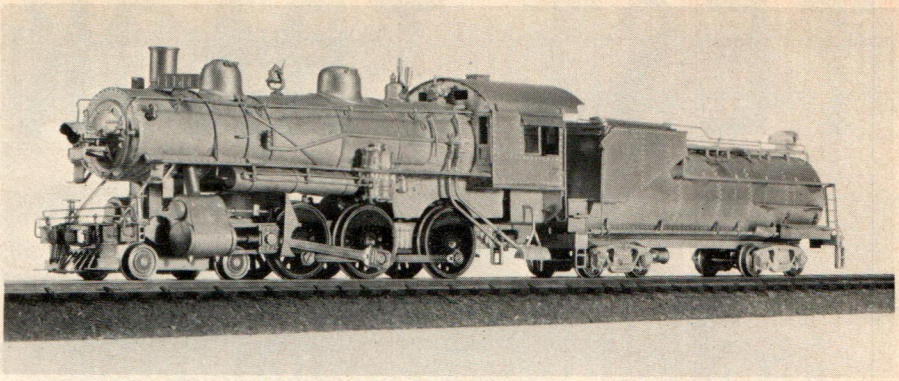
Set of Radial Roof Old-Timers in Brass Baggage, RPO, Sleeper, Coach....4/24.88
MIX & MATCH SPECIAL OF THE MONTH
PRR N1 2-10-2 Penn Line Mechanism Cary Boiler Lost Wax Detail Parts With Hiside Tender 39.50

LAST OF PREVIOUS SPECIALS-LIMITED
PENN LINE
PRR I1 2-10-0 kit.....29.88
PRR H9 2-8-0 kit.....22.88
PRR E6 4-4-2 kit.....19.88
Penn Line Mechanisms w/o motor, w/gear 2-8-0—10.88; 2-8-2—12.88; 2-10-0 14.88
Pittman Motors: DC-60.....6.50

AHM Timber Switcher 0-6-0T.....5.00
B&O Type 4-6-0 ptd.....10.00

Freight Trucks Metal Sprung.....10/3.88
Passenger Trucks w/o couplers.....4/2.88

TRACKSIDE SPECIALTIES
HOME OF "HO" CUSTOM BUILT ENGINES AND MODEL RAILROAD EQUIPMENT
12 Barker Rd., Franklin Township, Somerset, N. J.



Southern Pacific class T-28 Ten-Wheeler marketed by West Side Model Company in HO is equipped with largest type tender used on this class locomotive. Tender was also used on the other SP loco classes.

reproduction. This must be said with some reservation, because of the prototype. By the time these engines had run out their miles of service, all the little details that affect the appearance of an engine varied. Headlights, tenders, pilots, were all a little different on each remaining engine.

The tender provided with the model represents the largest of several types used in later years. It is well made and as detailed as the engine and sets down at the proper height above the rails. The tender is available separately and is suitable for two other types of SP locomotives.

The drive is more or less conventional with a steel worm and steel gear. Without any run-in period, the test engine ran quietly and throttled down to a realistically low speed. With some of the advanced controls now available and a good breaking-in period, excellent running should be no problem. Drivers are not sprung but since the desirability of springing seems a matter of debate and taste, we offer no comment.

Power is provided to the second axle directly. An NMRA-type horn coupler with housing is included along with a mounting screw. The rear underside of the tender is drilled and tapped for that or for universal and Kadee coupler pockets. The pilot has a dummy metal coupler. The loco measures 10½ inches with tender and has a wheelbase of 9½ inches with tender, reduceable by 5/32" if the closer hole in the wireless drawbar is used, important where the length of the turntable is a factor. Total actual measurement is 63 inches. The weight is 12 oz. Driver diameter by loco lists at $44.95 unpainted assembled. JW.

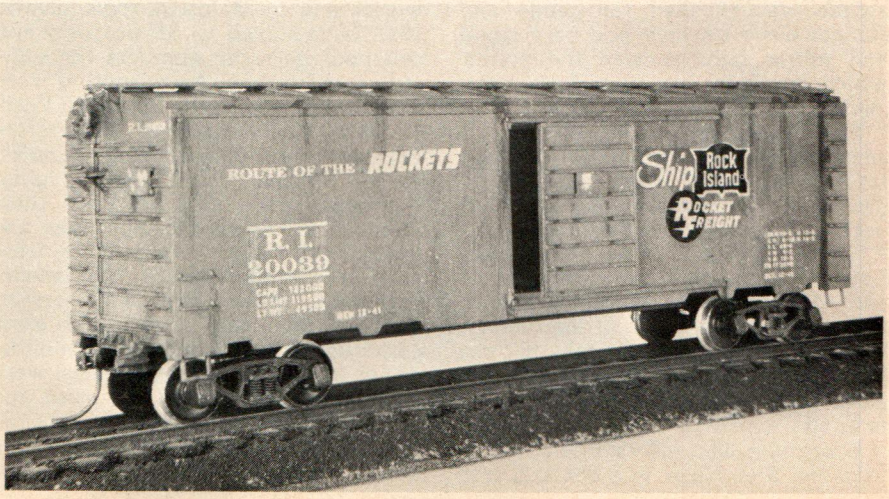
AAR Steel Box Car: S

Mfd. by Nimco and sold The Hobby Shop, Div. of Northern Industries, St. Albans, Vermont.

Since the box car predominates the railroad scene, S gauge welcomes the return of the Nimco kits to the growing market. This has been made possible by The Hobby Shop, (Div. of Northern Industries), St. Albans, Vermont. All Nimco parts and kits will assume the "Northern" name at a later date.

The box car shown in the photo is constructed entirely of N.E. precision cut basswood parts, with the exception of corner steps, hand grabs, Stewart brake wheel and housing. All body parts are cut to exact size leaving only the various strip wood details and additions to be cut and glued

Nimco 40 ft. AAR boxcar now marketed by Northern Industries, St. Albans, Vermont, in S gauge. Car shown is equipped with modified Kadee couplers adapted to S gauge. Car takes scale or toy trucks.

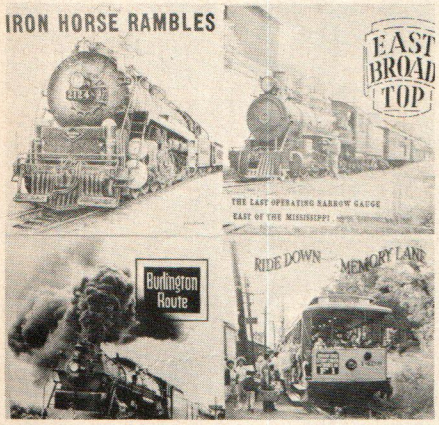


into place. Staples are used instead of the preferred N.E. grab irons, and underbody detail is entirely lacking except for a wooden center beam and truck bolsters. Couplers and coupler pockets are also excluded.

The car ends and loading doors appear very realistic even though fabricated entirely from wood parts and the doors slide in wooden tracks. Total car weight upon completion with the Kinsman trucks is 3⅓ ounces.

We can recommend these kits to the novice because of the simple construction. The plans included in the kit show perfect 3/16" scale top, bottom, side and end views allowing detail measurements to be taken directly from them. Another large sheet shows 16 clearly defined assembly steps and a nicely proportioned exploded view of the entire car with these steps indicated by pointed arrows. The car can be assembled in one evening ready for painting and decaling. Provision has been made to mount your choice of tinplate or scale trucks.

These kits are available direct from the above address as SB-11 without trucks at $2.50 or with Kinsman scale or hi-rail trucks for $4.15 and your choice of decals. Please specify which and give your 2nd and 3rd choice of decals. FT.



Railroad Sound Recordings

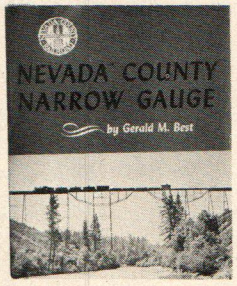
Mfd. by Ralbar Productions. Distributed by Associated Hobby Manufacturers, 3214E North Boudinot St., Philadelphia 34, Pa.

AHM is now distributing a series of six 7 inch 33⅓ rpm railroad sound effect records recorded on recent steam fan trips or at operating steam and trolley museums. Each of these Ralbar recordings has historical significance.

The series includes the following. No. 9501 Iron Horse Rambles, with Reading engines 2100 and 2124 recorded in various actions around the Trenton-Port Clinton-Reading area. No. 9502 Grand Trunk Western (no sample), No. 9503 East Broad Top official souvenir recording with engines 12, 14, and 15 at work hauling narrow gauge trains between Rockhill Furnace and South Shirleysburg. No. 9504 Ride Down Memory Lane, souvenir record of action on the Branford Trolley Museum at East Haven, Connecticut, aboard Connecticut Company open car 1414, with additional effects by BERA's tiny electric switcher. No. 9595 Strasburg Railroad (no sample). No. 9506 Burlington 5632, recorded on the NRHS fantrip operated during the 1961 convention in which the giant 4-8-4 class O5B tackled the head end.

These recordings are modestly priced at 99c each, making them popular with students and others on a tight budget. Sound fidelity on these records is very satisfying.

New Literature



Nevada County Narrow Gauge

By Gerald M. Best. Published by Howell-North, 1965, 8½x11, 214 pages, hard cover, 284 illustrations. $7.95.

Gerald M. Best has come up with one of the most exciting new railroad books we've seen in some time: the complete story of the famous old Nevada County Narrow Gauge Railroad. The book and its contents do more than justice to this gone but not forgotten streak of California history.

The 22.5 mile 3 foot gauge pike drove its last spike at Nevada City, California, on May 20, 1876. Regular train service started four days later.

The Nevada County Narrow Gauge boasted high trestles and bridges, gold mines and lumber mills, heavy grades and sharp curves, plus picturesque stations and yards. In short, it was the ideal prototype for many railroad modelers.

The many photographs of equipment and right of way bare this out. The photographs cover just about every contingency the modeler might be faced with in constructing his own pike. Included are many rare photos of mines large and small. Terminal, turntable, and station views are loaded with a wealth of reference material, as is the text. Rosters of locomotives and cars are included, plus plans of Mogul No. 5 which survives as a star of movies and television.

Author Gerald M. Best is one of the best known west coast railfans and has a collection of over 37,000 negatives and 75,000 prints. His new book can be summed up simply as just great. Available through RMC Reader Service, 6 East Main St., Ramsey, N. J. 07446.

GarGraves NEW
PHANTOM LINE TRACK
3 ft. flexible track to mate with O, O-27, O-72 & S gauge. Manual switches, power units and switch machines available.
Send 5c stamp for GarGraves Trackage Facts
GARDNER, The Train Doctor
2261 Dewey Ave., Rochester, N.Y.

AL STRETE
The Train Man
offers
Basswood strips, shapes, siding and car parts; Plywood, Brass tubing; US & Metric screws, nuts, washers; Kemtron; Cal-Scale; Hobby tools; Kadee & Rail Line couplers; Building papers; Rollin's House miniatures; Floquil; MEW, Hi-Ball, Golden Spike, LW, Model Hobbies, Olympic Cascadian; Slim Gems & Silver Streak kits & parts. Free list.
P.O. Box 2874, Columbus, Ohio 43204

RAILROAD EMBLEMS
(CLOTH PATCHES)
More than 200 Road Names, Some Very Rare
Send 15c in coin or stamps for 12-page illustrated catalog.
M. B. AUSTIN
138 W. 25th Avenue
San Mateo, Calif.

READY-TRACK
..the Ultimate in Realism and QUALITY!
19 Reasons!
. . . why it's the BEST!
READY-TRACK is the only track of its kind . . . with both rail-track and raised, ballasted embankment COMPLETE in ONE PIECE! Creosote stained wood ties . . . Nickel-Silver or Brass Rails, spiked in position . . . rail-joiners . . . the COMPLETE HO TRACK and ROADBED . . . READY for immediate operation! 'READY-TRACK' has the finest complete line of mounted Switches, Crossovers and Crossings that match perfectly.
READY-TRACK features the famed Tru-Scale 'Hi-Speed' Switches with the closing frog, which eliminates 90% of all major derailing problems! No rail-gaps, nor any electrical dead-spots in the rails. The most fool-proof switch ever developed!
See Your Hobby Dealer.
Send for complete catalog and instructive manual. Enclose 25c to cover costs.
Tru-Scale Models
San Dimas, California

CENTRAL VALLEY TRUCKS
have NI-CLAD WHEELS
"Finest HO Trucks You Can Buy"
Illustrated Catalog 10c
13000 SATICOY STREET NORTH HOLLYWOOD CALIFORNIA

MAIN LINE HO KITS
Billboard Reefers, Exp. Reefers, Box Cars, Cement Hoppers, Poultry Cars, Cabooses, Cattle Cars.
$3.45 to $3.95
Less Trucks & Couplers
MAIN LINE MODELS
P. O. Box 250 Falls Church, Va.

SATISFIED . . .
WITH YOUR PRESENT GAUGE?
START MAN-SIZE RAILROADING IN THE MIDDLE-SIZE GAUGE
Send for free brochure
SEE WHAT IS AVAILABLE
S GAUGE HERALD, BOX 105C
ORADELL, NEW JERSEY

Step up from the compacts to the BIG CAR CLASS!

ALL-NATION'S 40' STEEL "O" SCALE AUTO CARS
Silk-screened process, prepainted metal sides plus All-Nation quality construction. An attractive car . . . you'll like it!
Kit #3675 No Road Name, with Dim. Date
Kit #3676 Baltimore and Ohio
Kit #3677 Seaboard, Route of Courteous Service
Kit #3678 Atlantic Coast Line, tuscan red
Kit #3679 Canadian National, w/green leaf
Kit #3680 Great Northern, angular big white letters on bright red (illustrated)
Take your choice . . . $6.25 each, less trucks
Last chance at this low price of only $6.25
Offer good until Sept. 1, 1965 so order NOW!
#3845 Bettendorf sprung trucks, Per Pair $2.50
Matching paint, 2 oz. bottle..... $..60
An ALL-NATION LINE PRODUCT
THE ALL-NATION LINE
P.O. BOX 145, DES PLAINES, ILL.
P. S. Also available at All-Nation Hobby Shop 220 W. Madison Street, Chicago, Illinois.

SCREWS AND WASHERS

The proper use and selection of screws and washers for locomotives and cars greatly facilitates their construction and repair.

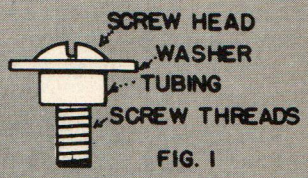


FIG. 1

FIG. 2

SCREW SIZE	4-40	2-56	0-80	2.0MM	1.4 MM
O.D. TUBING " " SLIP FIT	3/16"	1/8"	3/32"	1/8"	3/32"
" " TAPPED FIT	5/32"	3/32"	1/16"	3/32"	1/16"

TUBING MAY BE SLIT FOR SQUEEZING OR SPREADING
FIG. 3

CUT OUT WASHER TO SLIP ON SHAFT FROM SIDE
FIG. 4

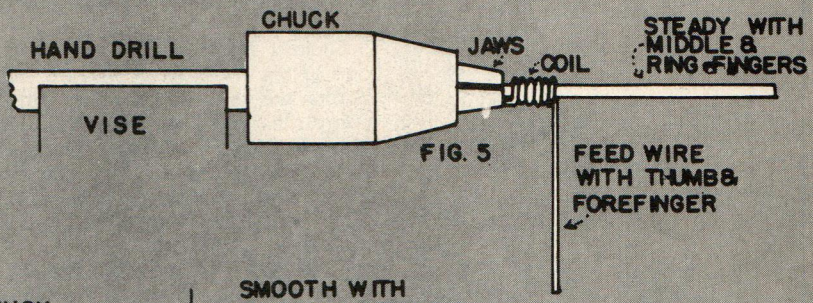


FIG. 5

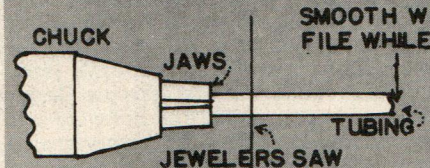


FIG. 6

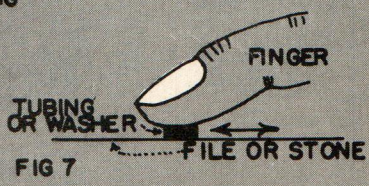


FIG 7

Size screw	Theads per inch	Tap drill	Clearance drill
00-90%	90	#60	#56
0-80	80	#56	#52
2-56	56	#50	#42
1.0 mm.**	101.6	#65	#61
1.4 m.	84.67	#56	#53
2.0 mm.	60.48	#52	#46

NOTE I: Metric taps and dies may be obtained also from jewelry supply houses under trade name Bergeon in sizes as small as 0.3 mm. which has 333.666 threads per inch.

NOTE II: Dimensional and other data on American small machine screws and washers are contained in "Tips on Threading for the Hobbyist" obtainable from J. I. Morris Co., Southbridge, Mass. (Folder 262).

MHP
IT'S HERE
79' SP "DAYLIGHT" TAVERN CAR in HO Scale
(available in corrugated or smooth sides)

Catalog 10c
The first in a series of 22 inspiring ALL NEW streamline passenger car kits in "HO" scale, including articulated coaches and diners.
MHP ALSO DIAPHRAGMS, PAINT, DECALS, INTERIORS.
See your Dealer or visit our showroom and have a cup of coffee on us. Just 45 min. west of L. A. on the Ventura Freeway.
MHP Model Railroading
WRIGHT ENTERPRISES
2967 Thousand Oaks Blvd., Thousand Oaks, Calif. 91360
P. O. Box 627

by William Schopp

The machine screws used in model railroading are in two series, American and Metric. The common American screws are called 00-90, 0-80, and 2-56. The first number is an arbitrary one, while the second indicates the number of threads per inch. There are screws with 000- in front, almost unheard of. The "missing" 1-72 is omitted on purpose since it has virtually no use any more in the hobby. Larger screws are 3-48 (used to attach switch motors to Snap-Switches etc.), 6-32, 4-40, and 5-40, the latter about the same as a 1/8" screw. Metric screws which are used on imported engines have their diameters given in millimeters such as 2.0 mm., 1.4 mm., and 1.0 mm Number of threads per inch is substantially greater than on American screws, making metric ones more suitable for tapped holes in thin sheet metal (See table at end of article.)

Taps (used to cut threads in a hole) and dies (used to put threads on a blank rod) for American screws are available from almost any hobby dealer or at mail-order houses. The larger sizes, 4-40, etc. are also available at hardware stores. Taps and dies for Metric Screws are available from dealers selling Pacific Fast Mail imports, in the range given. While 2-56 screws can usually be run into holes meant for 2.0 mm. screws (but not vice-versa), and 0-80 screws into 1.4 mm. tapped holes, this should be considered mainly an emergency procedure. I find it useful when the Metric holes has had its threads stripped or damaged.

The range of American screws available is fairly great, with a greater variety of heads — round, flat, etc. — than commonly available in Metric screws (which may come from Japan or Europe). Long 2-56 screws, over an inch, are used by both Penn-Line (Bowser), and Tyco for holding down the fronts of their steam loco boilers: hence these may be obtained as parts. The same firms also have various shouldered screws to attach trucks. The range of Metric Screws available is more limited, the longest being 6.0 mm. In trying to translate millimeters to inches, think in approximate terms of 25 mm to the inch. Of course special ones for specific locations may be obtained by writing to the importers.

Having a full selection of taps and dies for both series of screws (3 in each series as elucidated above) makes one able to handle most HO repairs. For instance, wanting a 2.0 mm screw longer than any listed and not for a specific engine, either), I recently made one by the simple expedient of cutting a 2.0 mm. thread on a 2-56 screw, which worked out nicely.

The fly in the ointment very often is shouldered screws, as in fig. 1. Domestic manufacturers and importers may be able to supply such screws for specific purposes on specific engines, but if it is an old engine, or if you want a little longer, little shorter, fatter, or smaller shoulder it may require some correspondence to explain your needs. You can make your own shouldered screws with the assistance of thin-walled brass or aluminum tubing which your hobby shop sells. These as well as larger size brass tubing is sold by Special Shapes.

The thin-wall tubing is available in diameters from 1/16" up, at least as far as we want to go for working with screws. Get a selection. To make a shouldered screw, as per fig. 1, you simply slip a piece of tubing on a screw. If it needs a bigger screw-head (very often true of shouldered screws), slip a washer meant for that size screw on first. The rub, of course, is to get the piece of tubing cut off square. The preferred way to do this is in a lathe of some sort, even a hand-drill held in the jaws of a vise. as per fig. 5. While your left hand turns the hand-drill, let your right hand square off the end of the tubing with a file as per fig. 6. Then, using either a jewelers saw or a razor saw, cut off a piece of tubing as long or as short as needed. In doing this, you must rotate the chuck and the tubing so that it is turning *against* the teeth of the saw.

To make the piece of tubing a little shorter, rub it against a fine or worn file, or against a stone, as in fig. 7, checking by eye from time to time to be sure you are not getting it worn too thin on one side — lopsided. Or cut a new piece of tubing.

The size tubing to slip on various popular size machine screws is shown in the table, fig. 2. Where a smaller diameter shoulder is required, try using the size tubing shown for "tapped fits." Here the hole in the tubing has to be tapped with the same thread as on the screw, perhaps drilling it out first. Sometimes this will split the tubing since the thin wall is made even thinner. However, if you care to, split the tubing, fig. 3, on purpose with your razor or jewelers saw and either tap it as well as you can or force it on the screw. A piece of split

(Continued on page 62)

Third Hand
Fully adjustable soldering aid, etc. Jaws can be set to any position. Firmly holds small items of any shape.
#T-508 Third Hand $4.98

Check or money order only: no C.O.D. All items post paid. N. Y. C. residents add 4% sales tax.

GLENMORE HARDWARE CO.
181 Greenwich St., NYC, N. Y. 10007

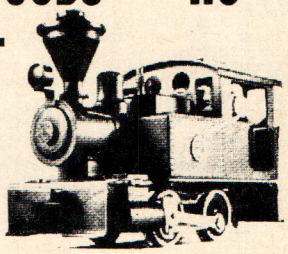
Hobby News
GUIDE FOR CREATIVE HOBBYISTS

• A newspaper covering ALL the hobbies • previews of new merchandise • news of contests *plus many thoughts and ideas to help you get MORE pleasure out of your hobby.*

FREE AT YOUR FAVORITE HOBBY SHOP

BACKWOODS HO

LOCO -
Plantation
O-4-OT



A workhorse with amazing pulling power —will outpull many larger engines.

2101 K Easy assembly kit $8.45
2101 R Ready-to-run 9.45

CARS -

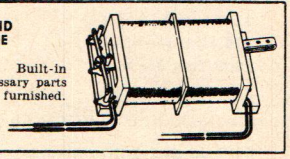
4-wheel cars as built in England and exported to U.S. and many other countries 'round the world in the early days of railroading. Models come ready-to-run, painted brown, and are equipped with NMRA automatic couplers.

4020 Side-door coach 4021 Baggage car
4022 Side-door coach with brakeman's compartment.
(Not illustrated) ..... Each $3.45

DOUBLE SOLENOID SWITCH MACHINE

Flat construction Built-in contacts - All necessary parts and instructions furnished.

No. 1001
Only $1.50



AT YOUR DEALER OR POSTPAID DIRECT
KEN KIDDER
BOX 213, SAN FRANCISCO, CALIF.
94101

"FINISHING TOUCHES"

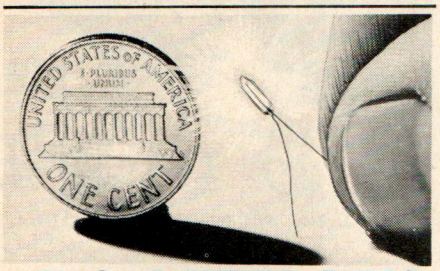
Let "Finishing Touches" provide your tiny, difficult super-detail pieces—save your time for the big projects.

HO "Finishing Touches" catalog, 25c (refundable)

O "Finishing Touches" catalog, 25c (refundable)

SELLEY, INC.

744 Clay St. Winter Park 5, Fla.



MICRO-MINIATURE BULBS

HALF THE SIZE of GRAIN of WHEAT

These fantastic bulbs make possible any number of lighted devices . . . such as Illuminated Switchstands, Signals, Marker Lights, etc. Aristo Miniature Bulbs measure only 1/16" in diameter by 3/16" in length. The leads are .005" in diameter, ¾" long. A considerable amount of illumination is provided by these bulbs.

No. 301—1.1 Volts to 1.5 Volts 60c
No. 302—2.5 Volts to 3 Volts 60c
No. 303—16 Volts 69c

Continuous Action Accessories Ready to Run/Were $21.50, Now 14.95 ea.

MINERAL ORE CONVEYOR. Complete set contains: Bucket conveyor cars that make continuous circuit; cables, masts, motor, and realistic ore cars.

SKI-LIFT. Consists of mountain station, valley station, center tower, passenger chairs with passengers.

CABLE CAR SYSTEM. Cars travel back and forth, up and down, between stations. Set includes 2 cars, 3 towers, cable, all in correct HO scale.

All 3 systems operate on 12v. AC or DC on power pack or train transformer. No extra power needed.

CATALOGS. Auto Raceways w/refund coupon, 96 pgs. $1.00. Old-Time Locos, Illus. 15c.

POLK'S HOBBIES (DEPT. RMC)
314 FIFTH AVE. (at 32nd St.) N.Y., 10001

(Continued from page 61)

tubing may also be squeezed down to a slightly smaller outside diameter (o.d.).

Splitting tubing this way reminds me that washers can also be split, or rather cut off, fig 4, in order to put them on a shaft from the side. This is very handy for taking up excess end-play in motor shafts where you do not care to dismantle the motor. Notch the washer as shown and, using tweezers, push it on from the side. Pittman has fibre washers in two thicknesses and in two hole-sizes each, suitable for use with their motors and, indeed, with most other motors. You can also make your own washers from fibre or brass — in many cases, they need not really be round.

Where thicker washers are needed, or more of them, you can also make your own by winding a coil of wire on another piece of wire held in the chuck of a hand-drill, fig. 5 I prefer to use copper wire which has been stretched with pliers and a vise, to make it straight. This is fed onto the mandrel (rotating wire) with the right forefinger above and, the thumb below, with two or three of the remaining fingers on that hand supporting the mandrel to keep it from bending too much.

The result may look like a spring, but is not likely to have any spring to it. Individual circles may be cut from it with pliers, scissors, cut-off discs, etc. These will not be flat but will have cut ends not meeting, similar to lockwashers. But brass circles can easily be bent flat, squeezed together so that gap does not show, or even spread a bit to make them larger in diameter. If they are too thick, they may be rubbed on a file or stone as in fig. 7 to make them thinner. They may also be squeezed in a vice or whacked with a hammer to make them thinner. Handle with tweezers.

You probably cannot substitute an electric hand-drill or a motor hand tool for the hand drill specified in figs. 5 and 6. They turn much too fast and are not reversible. You can use a foot rheostat (per electric sewing machine) to slow them down. I personally use a jewelers lathe, which does have speed and direction control. While this is faster than a hand-drill, buying a lathe just for this purpose means quite an investment considering all of the different size collets that would be needed.

I might mention a few of the things that can be done with a lathe and suitable size collet, should you have access to one. You can grab a screw by its head, with threads (and shoulder) sticking out, and do such things as thinning the head FROM UNDERNEATH, thus lengthening the shoulder, often useful with binding crank-pin screws. You can also cut back the shoulder, thus lengthening the screw as soon as you run the die up and add threads. Without a lathe, you can file or stone down the head of a screw from the top, thinning it out at least to the depth of the slot. However then you may have to cut a new slot with a fine file or razor saw.

To make this complete, I should also tell you how to cut screws shorter. Simply run a nut (or any piece of metal with a correctly tapped hole) up on the screw beyond where you'll cut. Cut off what you don't want using pliers, snips, saw, or whatever (not your teeth), stone or file the end smooth, and then run the nut OFF, chasing the threads so they will start easily. Knowing this little trick will let you get along with a lot fewer length of screws.

To reduce the size of a screw-head, grasp it by its threads (not too tightly) in any chuck, and rotate against a file. To enlarge a screw-head, put a washer under it as in fig. 1.

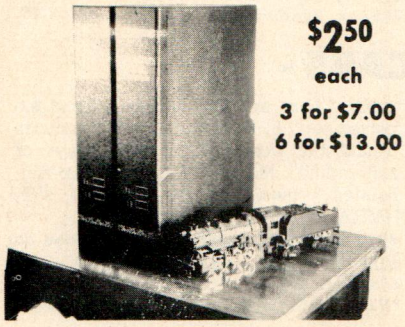
As a point of general information, it might be noted that the United States plus certain of the British Commonwealth members are virtually the only countries using the inch and foot system for measuring, not only in model railroading but in all forms of measurement. Thus such model railroad producing countries as Japan, Italy, Germany, France, and Yugoslavia, among others, quite naturally come by the metric system.

Recent news items coming from Britain indicate that there is ever increasing pressure for conversion in that country for a change to the metric system because repair and maintenance problems on British exports to metric system countries are becoming increasingly acute.

It follows that U. S. made train exports to overseas points may also be running into the same problems. The day may come when all model railroad items are made to metric standards.

Save your copies of

RAILROAD MODEL CRAFTSMAN



$2.50 each

3 for $7.00
6 for $13.00

- Each file holds one full year.
- No hacking, sawing, cutting.
- No rods to tear paper.
- Each issue removable by itself.
- Looks like a bound book.
- Covered in leather-like Kivar.
- Title embossed in 16 kt. gold.

MAGAZINE FILE CO. Dept. RMC
520 Fifth Avenue
New York 36, N. Y.

I am enclosing $ ..... Please send me ..... Jesse Jones Volume files for RAILROAD MODEL CRAFTSMAN.

☐ Send descriptive literature on Jesse Jones Volume files.

Name .....

Address .....

City ..... Zone ..... State .....

RAILROAD MODEL CRAFTSMAN RECOMMENDED HOBBY DEALERS

DEALERS, WRITE RAILROAD MODEL CRAFTSMAN, RAMSEY, N. J. 07446, FOR FULL INFORMATION

Arizona, Phoenix—Hobby Den
6012 N. 27th Ave. CR 7-2972

Arizona, Phoenix—Webster's Hobby Shop
521 E. Camelback Rd. AM 6-5343

Arizona, Tucson—Townsend's Art-Craft & Hobby Shop
2751 N. Campbell Ave. EA 5-0112

ARK., LITTLE ROCK—Bill Binz Co.
805 Cross St. FR. 2-9364

CALIFORNIA, BALDWIN PARK
H. O. SPECIALISTS, Kits and Custom Built. Parts for all trains. Open Friday nine to nine. Daily nine to six.
CARR'S MODEL SHOP
4110 N. Maine Ave. ED 7-9513

CALIFORNIA, BERKELEY
PFM, Suydam, Gem, Max Gray, Austin, NWSL, etc. All Cal-Scale; Kemtron, Main Line, C.V. Ambroid, Books. "Fleischmann, Marklin"; Dremel and many other tools.
BERKELEY HARDWARE
2109 University Ave. TH 5-0410

Calif., Buena Park—Train & Hobby Shop, Knott's Berry Farm, JA 7-1468

CALIF., BURBANK
Model Railroading Exclusively
Operating "O" & "HO" layouts.
Custom Bldg.
Open Tues. thru Sat. 12 to 8 PM
MODELVILLE RAILROAD SHOP
4417 W. Magnolia Phone. 846-3060

Cal., Campbell—Holmes Hobby Center
2381 Winchester Blvd., Ph: 378-4552

Calif.—Cudahy Robbies Hobby Center
7613 Atlantic Blvd. Ludlow 8-0305

CALIFORNIA, EL CERRITO
It's "UNIQUE" for HO TRAINS
Open daily 12-9 Sundays 12-6
UNIQUE MODELCRAFT
10020 San Pablo Ave. LA 4-1314

Calif., Fresno 3—Tom's Trains
2245 E. Hammond AM 6-3192

CALIFORNIA, LA PUENTE
Model Railroad Specialist. Try us for hard to get items and repair parts.
Open daily 10 to 6, Friday till 9.
CRAIN'S TRAINS & HOBBIES
1112 N. Hacienda Phone: 333-5502

Calif., Long Beach—Jiggs Hobby & Crafts. 938 South St., GA 2-2349

CALIFORNIA, LONG BEACH 13
Headquarters for your hobby. Complete stock of supplies for Model Railroads, Slot Racing and Ships. BOOKS!!
RAY'S HOBBY MODEL SUPPLIES
1222 Long Beach Bl. Ph: HE 6-4054

Calif., Los Angeles — Allied Model Hobby Shop
10938 West Pico Blvd. GR 9-2228

Calif., Los Angeles 66—Venice Hobby Shop
12904 Venice Blvd. Ph: EX 7-1959

CALIF., LOS ANGELES
Model, Hobby, Craft
"Simply Everything"
Open Daily — Closed Thursday
"COLONEL BOB'S"
3707 W. Pico RE 1-3717
3709 W. Pico RE 1-3717

CALIF., LOS ANGELES
Exclusively Model Railroading
All Gauges
Service
TROXEL BROS. MODELS
216 S. Western Ave. Los Angeles 4

CALIFORNIA 94558, NAPA
Specializing in HO. Large stock brass locos.
United, Tenshodo, Gray, etc.
Open daily & Mon. Nite 8-11 P.M.
VALLEY TRAIN STORE
1690 Yajome St. 224-8294

Calif., North Hollywood—The Roundhouse. 4739 Lankershim Bl., 769-0403

CALIFORNIA, NOVATO
Model Railroad Sales, Service & Repair
If we don't have it—we'll get it.
— Member —
Redwood Empire Division-PCR-NMRA
HOBBYLAND
1 Front St. Phone: 892-6060

CALIFORNIA, OAKLAND 19
United—Tenshodo—Akane—Gem—
Max Gray HO exclusively
REED'S HOBBY SHOP
3129 High St. KE 4-1119

CALIFORNIA, OCEANSIDE
HO Model Railroad supplies. RTR & kits. We carry a complete line of parts in HO. Open 9-6. Fridays to 9 P.M.
ALAN'S BIKE & HOBBY SHOP
1732 So. Hill St. SA 2-6950

CALIF., PALO ALTO
Ferroequinologist
OPEN EVENINGS AND SUNDAYS
AL'S HOBBYMART
El Camino Way and West Meadow
Phone: 326-1312

CALIFORNIA, PASADENA 8
HO, HOn3 Sales and Service
Kemtron-Cal-Scale-United-Tenshodo
We give S&H Green Stamps
WHISTLE STOP
3745 E. Colorado Bl. Sycamore 6-7791

CALIFORNIA, SACRAMENTO 14
Everything for the Model Railroader
Kits, Tools, Books
HOBBYCRAFTS
1616 Jay Street Phone 442-1293

Calif., San Bernardino — My Hobby Shop
24621 E. Baseline TUrner 9-1875

CALIF., SAN DIEGO
FRANK "THE TRAINMAN"
Lionel, American Flyer Service
Model Railroading Exclusively
4310 Park Blvd. CY 5-1611

Calif. 92105, San Diego — Gladys "Trains" Model Train Headquarters
4275 University Ave. Ph. 284-3449

Calif., San Diego—The Whistle Stop
3819 Sixth Avenue CY 5-7340

CALIFORNIA 91773, SAN DIMAS
Factory service, Lionel, Tyco, Aurora, Atlas. Complete Train repair service. Closed Monday.
ROY E. HOOPER LOCK & MODEL SHOP
211 W. Bonita Ave. LY 9-2602

CALIF., SAN FRANCISCO
Try Us.
FRANCISCAN HOBBIES
1935 Ocean Ave. JU 4-3919

CALIF., SAN FRANCISCO
Noriega Hobby Shop John's Trains
See us for trains, scale, tinplate
If it's good, we have it
3917 Noriega St. OV 1-7838

CALIF., SAN JOSE
Exclusively HO
Expert HO Repairing
9 to 6, Mon., Thurs.; Fri., 9 to 9
HUSTON'S HOBBY SHOP, INC.
335 S. First St. CY 4-6050

Cal., San Lorenzo—Hobbies Unlimited
17331 Hesperian Blvd. BR 8-1150

CALIF., SAN MATEO
California's most complete train store
Sales and service.
We give S & H Green Stamps
TRAINS—nothing but—TRAINS
132 W. 25th Ave. 341-5846

CALIF., SUNNYVALE
The West's largest train store. Try us.
Lionel, A.F., Maerklin, HO
Authorized service. 10 A.M.-9 P.M
SAT. 10 A.M.-6 P.M., SUN. 12-6
THE ENGINE HOUSE
672 Alberta Ave. CH 5-0609

CALIF., VAN NUYS
The one-stop shop for model railroaders. Books, Traction, PFM, Gray, Kemtron, Cal-Scale. We service what we sell. Daily 10-6, Mon., Fri. till 9
CLINT'S HOBBY'S
14831 Burbank Bl. Ph: State O-5533

Colorado, Colorado Springs — Lemle's Roundhouse
2410 No. Nevada (Rear) 632-1969

COLORADO, DENVER
HO Our Specialty
Tenshodo, United, Kemtron, Cal-Scale
Unimat & Accessories
CABOOSE HOBBIES
610 - 15th St. TA 5-1742

Colorado, Denver—Model Hobby Shop
3018 W. 38th Ave. GRand 8121

Conn., Branford — Branford Hobbies
Boston Post Road HU 8-9865

Conn., Bridgeport—Irv Yurdin's Train and Hobby Center
313 Fairfield Ave. ED 5-4545

CONN., COLUMBIA
Authorized Service Station for Mantua, Tyco, Walthers, Roundhouse & Athearn Stock, Pacific Fast Mail Bldg & Car Kits.
COLUMBIA CENTRAL HOBBY SHOP
Rte. #6, RFD #1 Phone: 228-9072

CONN., HARTFORD 3
New England's most complete HO Kits, Parts, Ready-to-Run & Imports. Airplanes, Boats, Craft Supplies. Daily 9:00 to 5:30—Thurs. to 9:00.
HOBBY CENTER
222 Pearl St. Phone: 247-1482

Conn., New Haven—Hull's Hobbies, Inc.
1203 Chapel St. near Howe UN 5-4319

CONN., NEW MILFORD
O, HO kits, locos, parts, scale lumber. TRACTION — Kidder, Miller, MTS, Suydam, Wagner, TOOLS—Custom bldg. & pnts. Closed Thurs.
NEW MILFORD HOBBY SHOP
48 Kent Rd., U.S. Rt., 7
203 EL 4-4789

CONN., STRATFORD
Home of Baldwin Model Locos. O Ga. Authorized Lionel & Am. Flyer Service. All Gauges from TT to ¾" Steam.
TRAIN EXCHANGE CENTER, INC.
3636 Main St. 378-5233

Fla., Melbourne—Ernie's Hobby Shop
7 Depot Dr. Phone. PA 3-4610

FLORIDA, MIAMI
ORANGE BLOSSOM HOBBIES
HO — HOn3 — Traction — TT
See us for your modeling needs—from scratch-building thru R-T-R.
1975 NW 36th St. 633-2521

FLORIDA, ORLANDO
Largest selection of HO, HOn3 in Fla. United, Tenshodo, Akane, North'stern, Ambroid, LaBelle, Walthers, Cal-Scale, Kemtron, Kadee, etc. Service, repairs.
COOPER'S HO DEPOT
2630 Edgewater Dr. 305-GA 5-8933

FLORIDA, TAMPA
THE MOST
CHESTER HOLLEY
3812-20 S. Himes Ave. 831-7202

Fla. 33406, West Palm Beach—The Flagstop
1240-42 Pineway Dr. Phone 683-2632

ILLINOIS 60504, AURORA
Tenshodo, United, Suydam, N-W Shortline, Ken Kidder, Kemtron, Cal-Scale, Ambroid Kits. M. E. W. and many others. Daily 9-5:30, Mon. & Fri. to 8:30.
JOHN'S HOBBY SHOP
25 South River St. Ph: 312-896-0303

ILLINOIS, CHICAGO
Complete stock domestic & imported HO trains, equipment, parts & service. Std. Ga. parts, rewheeling & repairs.
BENTY HOBBY SUPPLIES
956 W. Belmont Ave. WE 5-9860

ILLINOIS, CHICAGO
Chicago's greatest stock of Model Trains in O-HO-TT-S gauges
Parts galore in SHIPS—PLANES
ALL NATION HOBBY SHOP
220 W. Madison St. Chicago 6

ILLINOIS 60601, CHICAGO
Downtown Hdqtrs. for HO RR.
Lionel-Tyco-Sets-Track-Access.
Also complete Road Race & Slot Racing
K & G PRODUCTS CO.
119 W. Lake St. FI 6-3238

Ill. 60641, Chicago—M&G Hobby & Cycle Shop
3445 N. Pulaski Rd. 539-5310

ILLINOIS, CHICAGO
TT, O, S, HO railroads, race cars.
Complete stock of kits and supplies for boats, airplanes
TROST MODEL SHOP
3111 W. 63rd St. PRospect 6-1354

ILLINOIS BERWYN-CICERO 50
Complete Stock for Model Railroaders Kits, Parts, Tools, Supplies. Lionel Approved Service and Sales Station.
AIRPLANE MODEL & HOBBY SHOP
6129 W. Cermak Rd. OL 6-0224

ILLINOIS, DES PLAINES
PFM, Akane, Gem, Cal-Scale, Others. Complete Line Kits, Acc., Scratch Bldrs. Suppliers, R.T.R. Equip., etc.
THE TOY & HOBBY HOUSE
1486 Miner St. Phone: 827-6550

ILLINOIS 60202, EVANSTON
"Everything in Trains." Military Miniatures, Custom Building & Painting.
THE HOBBY CHEST, INC.
515 Howard St. DA 8-4811

Illinois, Galesburg—Ray's Hobby
181 N. Cherry St. (Telephone) 4630

ILLINOIS, LA GRANGE
Model railroad, airplane boat kits, toys, games. Lionel factory service station. Open Mon., Thurs. evenings.
LA GRANGE HOBBY CENTER
11 W. Calendar Fleetwood 4-1220

Illinois, Joliet — Walt s Hobby and Model Shop
32 W. Clinton St. Phone 6-1632

Illinois, Park Ridge—Bill's Craft & Hobby Shop
30 Main St.

FOR THE BEST IN YEAR ROUND SERVICE, SUPPLIES AND TRAIN REPAIRS

RAILROAD MODEL CRAFTSMAN RECOMMENDED HOBBY DEALERS

DEALERS, WRITE RAILROAD MODEL CRAFTSMAN, RAMSEY, N. J. 07446, FOR FULL INFORMATION

Ind. 47274, Seymour—Spencer's Food and Hobby—2015 Ewing Street Rd.

KANSAS 66604, TOPEKA
Auth. Mantua-Tyco Serv. Sta. Athearn, Hobbytown, Varney Diesel & Steam HO Loco & Mantua-Tyco Slot Car parts & repairs.
PETERSON ELEC. APPL. SERVICE
1234 Clay St. Phone: CE 2-1854
Endorsed by Martin Hob. & Toy Shops

LOUISIANA, NEW ORLEANS 25
Tenshodo, United, Gem, Cal-Scale, etc. Daily 9:00-6:00 for Your HO Kits, Tools, Books, Parts, Builders Supplies, etc.
HUB HOBBY SHOP
2618 So. Broad Ave. Phone: 822-3914

MARYLAND, BALTIMORE
Baltimore's complete hobby shop. Over 20,000 HO items. Lower Prices. Closed Wed. Open Fri. 12-9 Sat. 10-9
CITY-WIDE HOBBY SHOP
7913 Harford Rd. NO 8-9200

Maryland, Baltimore 2—M. B. Klein, 206 N. Gay St., LE 9-6207

MARYLAND, BALTIMORE 18
The Complete Railroad Shop
All Gauges—And Parts
We Assemble We Spray Paint
LLOYD'S
Model Railroad Headquarters
2201 N. Charles Street

MARYLAND, SEVERNA PARK
Most complete hobby shop Chesapeake Bay area. All scales & gauges model trains, cars, boats.
"Frank, The Trainman" S. P. Shop Center
THE DEPOT
Box 800 301-MI 7-6602

Mass., Arlington—Bancroft Cycle & Hobby Shop
1377 Mass. Ave. MI 3-7878

MASS., BOSTON
HO-HOn3 Locos. Kits & Accessories Most complete stock of HOn3 in Boston—6 days 10 a.m. to 7:30 p.m.
EAST BOSTON HOBBY SHOP
32-34 Bennington Street
E. Boston 28, Mass.

MASS., BOSTON
Model Railroads Exclusively. Lionel-American Flyer-Marklin. Complete line of HO.
Home of Tremont 26 Switch
ERIC FUCHS
26 Tremont Street Boston

Mass. 02189, East Weymouth — MacDonald Hobbycraft Co.
19 Fairmount Ave. Tel. 337-9185

MASS., LAWRENCE
This complete shop for the Model Builder. Open till 9 p.m. daily., Sat. till 6 p.m. HO Trains our specialty, plus Planes, Boats, Gas Engines, R/C equip.
MODELER'S HAVEN
80 Manchester St. Phone: 683-3222

MASS., LYNN
"New England's Foremost Hobby Shop" HO Trains—Model Motoring—Ships—Planes—Gas Engines—R/C Equip. Stamps & Coins for Collectors
LYNN HOBBY CENTER, INC.
18 City Hall Square LY 8-2382

MASS., NEW BEDFORD
O & HO Gauge Scale & Tinplate - O Traction. Gem, International, Kemtron, All-Nation, Walthers, LaBelle. Open Mon., and Fri. Nites 7-10 p.m.
THE RAILROAD HOBBY SHOP
Rear of 66 Capital St. WY 2-8770

Mass., North Easton—Lindstroms, 50 Elm St. CEdar 8-6224

Mass., Worcester 8 — Henry's Hobby House, 180 Front St., Pleasant 4-5604

Michigan, Battle Creek—Howard's Hobby Shop
33 Capital St., N. E. WO 8-8211

MICHIGAN, DEARBORN
All Gauges—HOn3, HO, On3, O Parts Kits, Tenshodo, United Kemtron. All Others. Open Thur. & Fri. 'til 9:00
STAR HOBBIES
22005 W. Outer Dr. Logan 5-9670

MICHIGAN, DETROIT
Complete line HO Scale Model. Lionel & AF-approved Service Station. Block north of Tuller Hotel. 9 to 5:30. Monday to 9.
DOWNTOWN TRAIN & CAMERA SHOP
122 W. Elizabeth St. WO 1-6932

Michigan, Detroit 21 — Hobby Shop, Inc.
19924 Livernois DI 1-8872

MICHIGAN, DETROIT
Trains, Crafts, Models, Toys. Over 50,000 items for hobbyists. Over 500 different train locos. All gauges. Open evenings. Michigan's largest antique train collection.
MODELS HOBBY SUPPLIES
22524 Woodward Ave. LI 3-2242

Michigan, Detroit—Northwest Detroit Hobby
18901 W. 7 Mile Rd. KE 3-6056

Michigan 48135, Garden City—Nankin Hardware 35101 Ford Rd. PA 2-5700

MICHIGAN, GRAND RAPIDS
Scale & Tinplate O - S - HO. Auth-Lionel - A.F. - Mantua - Tyco.
Sales & Service
Daily 9:30-5:30 Mon. & Fri. 9:30-9
CARL A. MEYERS HOBBY HOUSE
227 S. Division Ave. GL 6-9395

Michigan, Kalamazoo—Hiler's Model Railroad Shop
712 Southworth 342-8248

MICHIGAN, LANSING 15
Authorized Tyco & L.M.B. Service. Parts - Kits - Supplies. Open Sat. 9:30 a.m. to 7:30 p.m. Other times by appointment only.
JARCHOW'S HO REPAIRS
1511 Owen St. Phone: IV 9-9223

MO. 64836, CARTHAGE—Boomer Shack
1220 Oak St. FL 8-7421

MISSOURI 64131, KANSAS CITY
Model Railroad Headquarters
O-On3—S—HO—HOn3—000
Lionel-American Flyer-Lost Wax Foundry
SPOTLIGHT RAILROAD
7427 Troost Ave. Phone: HI 4-7331

Missouri, St. Louis 9—Charlie's Hobby House, Inc.
4611 Mackland Ave. FI 3-3836

Missouri, St. Louis 20—Henze's Hobby House
5405 Riverview CO 1-4480

MISSOURI, ST. LOUIS 18
Lionel parts for the home mechanic. Complete line of HO.
American Flyer & Lionel.
JOHNSTON TRAIN SHOP
3118 Chippewa PR 2-8636

MISSOURI, ST. LOUIS 24
TINKER TOWN
Kits & parts for all gauges. Specialists in HO & TT. Also planes, boats & autos. Daily 9:30 to 5.30; Mon. & Fri. to 9:00.
9658 Clayton Rd. WY 1-0154

MISSOURI 63121, ST. LOUIS
Tenshodo-United-Ken Kidder-Max Gray Amer. Flyer-Lionel. Sales & Service Mon.-Fri. 9:30-9, Sat. 9:30-6
TOM'S TRAINS, INC.
125 Normandy Shop. Ctr., EV 2-8220

REPAIRS?
Most of the hobby shops listed in these pages offer quality repair work at fair prices. Patronize the one nearest your home.

MONTANA, HUNGRY HORSE
Our New Location.
Complete stock of O, S, OO, HO, HOn3, TT, Amer. Flyer, Lionel.
EASTERN MODEL RAILROAD CO.
Contact us for location at P.O. Box 148

Nevada, Reno—Builders & Farmers Hdwr., 1274 S. Virginia St.

New Hampshire, Nashua—New England Hobby & Sports Center, Inc.
94 West Pearl St. TU 2-6442

New Jersey, Elizabeth 3—Hobby Center
327 Morris ave. EL 2-1622

NEW JERSEY, HAZLET
PFM, UNITED, TENSHODO, GEM, MAX GRAY, SUYDAM INTERURBANS, KEMTRON, CAL-SCALE, WALTHERS, LA BELLE, HO SPECIALISTS.
INSTANT TV
649 Laurel Ave. Phone: 787-5287

New Jersey 07107, Newark — Ace Hobby Craft & Fix It Shop
385 W. Market St. Phone: MI 3-4088

NEW JERSEY, PARSIPPANY
Authorized Service All Makes "O," "S", "HO" Trains. Open Sundays, Weekdays, evenings till 9 p.m.
RICH'S HOBBYTOWNE, INC.
Phones: DE 4-2666,
U. S. Highway 46 CA 6-7909

New Jersey, Plainfield—Craftsman Model Shop
300 Park Ave. Tel. PL 6-6089

NEW JERSEY, PLAINFIELD AREA
Complete line HO equip. in our Hobby Depts. Hdqs. for Marklin. Trains—Planes—Slot Racing—Crafts.
TINY TOTS, INC.
Rt. 22 East, Greenbrook 968-0440
236 W. Front, Plainfield 756-6095

YOUR YEAR ROUND HOBBY DEALER OFFERS PARTS, SERVICE AND ALL NEW KITS & LOCOS

NEW JERSEY, RAMSEY
TT, HO, S, O Scale. Cal-Scale, Kemtron Fittings, Authorized service, Lionel, AF, PennLine, Tyco, Marklin. Open daily 10 to 8, Fri. 10 to 10, Sun. 10 to 6.
HI-WAY HOBBY HOUSE
Route 17 DA 7-0075

New Jersey, Red Bank—Hobby Headquarters
62 White St. Red Bank 6-4451

NEW JERSEY, RUTHERFORD
Rutherford's leading R.R. Headquarters HO, S, O gauges, Lionel, Gilbert, Parts, Gargraves track.
PAUL'S HOBBY SHOP
306 Union Ave. GE 8-0192

New Jersey, South Orange—Village Hobby Shop
14 Sloan Street SO 2-6939

NEW JERSEY, TOMS RIVER
HO, S, O—Cal Scale, PFM, Tenshodo, Tyco, Penn Line. Daily 10-9, Sun. 10-6.
HOBBY CITY
Route #37 341-1991

NEW JERSEY, TRENTON
25 years of Model Railroading. Paradise for Hobbyists! Collector items, too.
TRENTON HOBBY CENTRE
Daily 10-5:30, Thurs. till 9.
237 E. State St. EX 3-1644

NEW JERSEY, WEST ORANGE
HO Trains Exclusively. Kemtron - Cal-Scale fittings, other access. Open eve. 6:30 to 9:30, Sat. 10 a.m. to 6 p.m.
THE WHISTLE STOP
17 Tremont Ave RE 1-6373

NEW JERSEY, WESTMONT
Largest stock of quality HO, featuring Tenshodo, United, Max Gray, Gem, Hobbytown, Cal-Scale, Kemtron, Walthers. Scratch builders supplies.
SATTLER'S
14 Haddon Ave. 854-7136

NEW MEXICO 87110. ALBUQUERGUE
Scale O-S-HO in stock — Airplanes — Autos — Science Center — Stamps, Coins and Supplies.
HEIGHTS HOBBIES
3232 San Mateo, N. E. 268-6035

ALBUQUERQUE, NEW MEXICO
O, HO Standard Narrow Gauge Brass Imports & Dom. Parts & Supplies. Planes-slot cars-science. Open eve. & Sun.
HOBBY KORNER
6693 - 4th NW (US85N) 344-3267

NEW YORK, BATAVIA
BUDDY'S ROUNDHOUSE
HO - Trains Specialist. Tenshodo - L.M.B. - Mantua - Athearn. Open 1 p.m. to 9 p.m., except Wed., Sun., holidays.
10 Main St FI 2-8241

NEW YORK 10465, BRONX
Hdqs. for Model Trains, All Gauges. Slot Racing, Arts, Crafts, Bike Acc. Archery, Science-Chem, Model Repairs
THROGS NECK HOBBY CENTER, Inc., 3482 E. Tremont Ave., 824-7072

NEW YORK, BROOKLYN 34
HO & "O" gauge train specialists. Layouts & train boards built to order. Custom built locomotives & equip.
ARTISIAN HOBBYCRAFT, INC.
2204 Flatbush Ave. Cloverdale 8-2502

NEW YORK, BUFFALO 14215
For the best in HO (Tenshodo, Akane, Max Gray, Ken Kidder, Tyco, Athearn, Cal-Scale, Kemtron, Selley.) Mon., Thur., Fri. 10-9; Tues. & Sat. 10-6. Closed Wednesday.
FIELD'S HOBBY CENTER
3177 Bailey Ave. TF 6-7832

NEW YORK, BUFFALO
Buffalo's original and most complete Hobby Shop. Open daily 9:30 to 5:30; Thurs. & Fri. 'til 9 p.m.
HOWARD E. RUTH HOBBIES
1466 Genesee St. TX 6-6850

NEW YORK, ELMIRA
HO stocked and run by George Clapp, an HO'er since 1938. NMRA Life No. 462.
CLAPP'S HOBBIES & CRAFTS
200 E. Water St. Elmira, N. Y.

NEW YORK, FRANKLIN SQUARE
All kinds of repairs—Lionel, Amer. Flyer, etc. Kits & parts — Tenshodo, United, Gem, LaBelle. Open Mon. & Fri. Eve.
FRANKLIN HOBBY SHOP
81 Franklin Ave. 516-FL 4-4470

New York, Freeport—Nassau Hobby Center
35 Church Street.

NEW YORK, HUNTINGTON
Model Railroad Specialists. Tremendous Stock of Parts—Try us! Largest Marklin Display on L. I.
THE CABOOSE-HUNTINGTON TRAIN CENTER
219 Wall St. at S'thdown HA 7-8288

FOR THE BEST IN YEAR ROUND SERVICE, SUPPLIES AND TRAIN REPAIRS

RAILROAD MODEL CRAFTSMAN RECOMMENDED HOBBY DEALERS

DEALERS, WRITE RAILROAD MODEL CRAFTSMAN, RAMSEY, N. J. 07446, FOR FULL INFORMATION

NEW YORK, NEW YORK
HO, Lionel, A.F., Marklin, Sales & Ser. Radio Control Equip. Planes, Boats, Crafts. Daily 9 to 9; Sun. & holidays 11 to 7.
HOBBY MART
Port Auth. Bus Term. (heart of NYC)
625—8th Ave. BR 9-5869

NEW YORK, NEW YORK 12
Largest Selection United - Tenshodo - Gem Loco in NYC Cust. Pntg. Specialty. Model Motoring Serv. Auth. Lionel, AF, KMT Sales & Service Sta.
Houston Sales Train & Hobby Center
55 E. Houston St. RE 2-4079

NEW YORK, NEW YORK
Trains are our business—we have no sidelines. Authorized repair station. Mantua, "Thomas, All-Nation, Lionel, AF, etc."
MODEL R. R. EQUIPMENT CORP.
23 W. 45th St. JU 2-2760-1-2

NEW YORK, NEW YORK
Trains from the world over! Accessories. parts and repairs, all gauges. World's leading hobby house, 5 fl'rs.
POLK'S HOBBY DEPT. STORE
314 5th Ave. at 32nd St. BR 9-9035

N. Y. 11419, RICHMOND HILL
United, Tenshodo, Gem, Max Gray. Largest Selection in New York. Cal-Scale parts.
TIP TOP HOBBY SHOP
111-11 Liberty Ave.
835-0963 or 641-9428

New York, Ridgewood—Nagengast Hardware
6802 Fresh Pond Rd.

New York, Rochester—Carl's Hobby House
1310 Clinton Ave., N CO 6-4706

NEW YORK, ROCHESTER
SCALE—Tinplate, Lionel Factory & American Flyer, Approved Service. Mfrs. of Gargraves Trackage. Exclusively model railroading equipment.
"TRAIN DOCTOR" GARDNER
2261 Dewey Ave. UN 5-6574

NEW YORK, SCHENECTADY 5
Capital District's Largest Train and Hobby Shop. P.F.M., Gem, Akane, Kemtron, Cal-Scale, Walthers always on hand. 9:30 till 6, Tues., Thurs. till 9
FOUR STAR HOBBY CENTER
120 State Street Phone: FR 4-9823

New York, Syracuse—Model Railroad & Hobby Center
219 E Fayette St. GR 1-2000

NEW YORK 10705 YONKERS
HO Hdqs. Novice & Craftsman. Ambroid-Cal-Scale-Kemtron-PFM-Tru-Scale. Hard-to-get parts Mantua-Varney. Fri. till 9
HANDY DAN HOBBY SHOP
262 Riverdale Ave. YO 9-9701

N. C. 27609, RALEIGH
Complete Stock for Model Railroaders Kits, tools, supplies, R/C equipment Model planes & boats
NORTH HILLS HOBBY SHOP
4257 Six Forks Rd. 919-787-2364

OHIO, CINCINNATI (WESTWOOD)
Exclusively Model Railroading
Daily 7-9 p.m.
Saturdays 10 a.m. - 6 p.m.
THE MODEL RAILROAD SHOP
2953 Montana Ave. 241-3233
(Just off Harrison Ave., U.S. 52)

OHIO, CLEVELAND
HO Trains Exclusively
You must be satisfied or your money cheerfully refunded.
BARON'S HOBBY SHOP
898 E. 222nd St. RE 1-7775

Ohio, Cleveland—Red's Hobbycraft
7804 St. Clair Ave. HE 1-0719

OHIO, CLEVELAND
Complete HO stock, domestic & foreign, Slot Racing, Airplanes, Boats, radio control, motors, supplies, crafts.
NATIONAL HOBBY, INC.
4526 Lorain Ave. AT 1-3600
5238 Ridge Rd. (Parma) SH 9-4750

OHIO, CLEVELAND
Ready-to-Run HO, Lionel - Flyer. Available parts always in stock. Rare Lionel items; sales-service. TRADING OUR SPECIALTY.
TRADING POST
4384 Pearl Rd. ON 1-7300

Ohio 44116, Cleveland (Rocky River)
"Ho" R. R. & Trolley Supply Co.
19335 Laurel Ave. 333-3031

OHIO, COLUMBUS 4
HO our Specialty - Working Layout - Model Planes, Car, Ships - Crafts and Science - Greeting Cards - Party and Gift Wrap Papers.
STRETE HOBBIES
3655 Sullivant Ave. BR 9-6959

OHIO, COLUMBUS
HO Kits, sets, ready to run, parts, service, operating layouts.
Mon.-Fri. 12-9; Sat. 10-9
HOBBYLAND
Graceland Shopping Ctr. 263-8500
Great Eastern Shop'g Ctr. 866-8500
Amos Shopping Center 267-8500

Ohio, Lakewood—Wings Hobby Shop, Inc.
17114 Detroit Ave. AC 1-0926

Ohio 45042, Middletown — Danny's Train Repair
2403 North Ave. 423-2040

OREGON, HILLSBORO
Akane, P.F.M., Cal-Scale, LMB. Specializing in HO - Real Brass Buys. Open 9:30 a.m. to 8 p.m., Fri. till 9
HILLSBORO HOBBY SHOP
321 E. Main St. MI 8-3788

Pa., Allentown—Bloch's Hobby
918 Hamilton St. HE 2-9975

PA., ALLENTOWN (Fogelsville)
Largest stock HO in area. Operating layout. R/C boats & planes, Indian lore. Acres of parking. Daily 10-10 and Sundays 1-10.
DON MOHR'S HOBBYLAND
6 Miles West on Rt. 22 EX 5-2842

PENNSYLVANIA, GREENSBURG
24 Hr. guaranteed repairs — All gauges of Trains — Sales & Service Authorized by all major companies.
COLLIER TRAIN SERVICE
203 W. Pittsburg St. TE 4-9504

Pa., Hazelton—Hobby Haven
128 N. Wyoming St.

PA., LEBANON
Complete HO gauge Model Railroad Shop. We repair, custom build, service, trade. Tenshodo, Gem, Akane, LMB, KTM. Open evenings.
HOBBY HOUSE
1300 Florence St. CR 3-5461

Pa., Philadelphia—Richard Francis Hobbies
5815 Woodland Ave. SA 9-1266

PA. 7, PHILADELPHIA
Marklin, Fleischmann, Lionel and AF Complete line HO kits, accessories. Authorized Serv. Station for all trains
NICHOLAS SMITH
60 North 11 St. WA 5-0521

Pa. 19102, Philadelphia — Specializing in HO Trains. Large stock balsa, basswood for architectural models.
TOM THUMB HOBBY SHOPS
122 S. 16th St. LO 7-7194

PA., SOUTHAMPTON
HO Sets and Kits, Accessories; AF; Rokal Mantua-Tyco Authorized Service Station
BROADBENTS
44 Second St. Pike EL 7-0446

Pennsylvania, Sunbury—Schraeder's Corner Store
472 N. 4th Street AT 6-6841

PA., UPPER DARBY
TODD'S FOR TRAINS
Largest, most complete "HO" & "O" Train & Traction Stock in Phila. area. 25 yrs. Train Sales & Service. Cust. Wk. Scratch Bldrs. Supplies.
7036 Terminal Sq. FL 2-1011

SO. DAKOTA 57104, SIOUX FALLS
Authorized sales and service in HO, S, and O Scales. Everything in Model Railroading from Tinplate to Custom Lettering and Painting.
THE INLAND EMPIRE SYSTEM
803 S. Duluth Ave. 334-8603

Tennessee, Nashville—Meacham Variety Store
2412 Gallatin Rd. Phone: 262-9636

TEXAS, DALLAS
Trains — Imports — Kits—Ready to Run—Acc.—Planes—Race Cars—Games—Crafts. Service on anything we sell.
BOBBYE HALL'S HOBBY HOUSE
4822 Bryan St. TA 1-2550

TEXAS, SAN ANTONIO
Operated by a modeler for model builders. Terrell Plaza Center on U.S. 81. Open Thursday evenings.
DICK'S HOBBY SHOP
113 Plaza Gordon TA 6-7941

Texas, Waco—Baugh Model Shop
512 N. Twenty-Fifth Plaza 4-4581

Va. 23503, Norfolk — Ocean View Hobby Shop.
404 E. Ocean View Ave. JU 7-5374

Va. 23504, Norfolk — Toy Craft
3904 Granby St. Madison 2-6043

Va. 23505, Norfolk—Zephyr Miniatures Wards Corner
123 W. Little Creek Rd. JU 8-1934

Va., Richmond—Bob's Hobby Center
3002 W. Cary St. Phone: 353-6566

WASHINGTON, SEATTLE
Complete line of Trains - Airplanes Ships - Racecars - Supplies
HOBBY CRAFT
The Bon Marche MA 4-1234

WASHINGTON, SEATTLE 66
Complete line HO kits, accessories, tools. Import locos PFM, Gray, Austin, Akane, NWSL. Open daily 10-6, except Mon. & Fri. 10-9 p.m.
BURIEN HOBBY CENTER
619 S.W. 152nd St. CH 2-8410

WASHINGTON, SPOKANE 10
HO Model Trains
Airplanes, Boats, Kits and Supplies
Open Friday Evenings
MAURIE'S MODEL SHOP
Bon Marche, Main & Howard
RI 7-5111

WEST VIRGINIA, BELLE
Authorized Mantua Tyco Dealer. Hobby Center for Kanawha Valley Trains, Planes, Crafts. Train Repairs Custom Building
BROWNIE'S
MODEL RAILROAD EQUIP.
2001 W. Riverview Dr. WI 92-385

WISCONSIN, MILWAUKEE
Complete stock of Walthers O & HO kits, parts and decals. Daily to 5:00. Saturday 10 a.m. to 1 p.m.
TERMINAL HOBBY SHOP
1247 N Water St. BRoad'y 1-7364

WISCONSIN, MILWAUKEE
HO Specialist Tenshodo, Gem, Cal-Scale, Kemtron, United, 99% Complete One Stop Shop for all hobbies.
HOBBY HORSE
Capitol Ct. Shopping Ctr., UP 1-9760

Wisconsin, West Allis 14—Garman Hobby Shop
8216 N. National Ave. GR 6-1412

ONTARIO, LONDON
Live Steam Rail 1" and 1½" Scale All Canadian Alv-Aloy Accessories for Cars, etc.
DUNDAS HOBBY SHOP
804 Dundas St. Phone: 438-3975

ONTARIO, ST. CATHARINES—NIAGARA CENTRAL HOBBIES
236 St. Paul Street 684-7355

Ontario, Toronto, 17—Leonard's Hobby Centre
1586 Bayview Ave. Phone: 483-8825

ONTARIO, TORONTO 12
Athearn, Mantua, Hornby, Rivarossi, Tenshodo, etc. Authorized Train Repairs. Mon. to Sat. 9-6; Thur. & Fri. to 9 p.m.
NORTH YORK HOBBIES & CRAFTS
1910 Avenue Road RU 1-4139

Ontario, Windsor—Janisse's Hobby & Toy Shop
2017 Wyandotte St., W CI 2-8817

ONTARIO, TORONTO 7
Canada's only exclusive train store. New, used and rebuilt trains. Guaranteed repairs.
GEORGE'S TRAINS
510 Mt. Pleasant Road
Phone: 489-9783

ONTARIO. TORONTO 12
Canada's HO Gauge Specialists
Always First with the Newest
We Service What We Sell
THE MODEL TRAIN SHOP
2387 Yonge St. 483-0967

If your local dealer does not stock copies of Railroad Model Craftsman each month or if he continually runs out before you can obtain your copy, send us his name and address. We'll make sure he receives a complete supply of Railroad Model Craftsman magazines each month, just as soon as they are issued. Put the name and address of your dealer on a post card and send to:

Circulation Department, Railroad Model Craftsman, Ramsey, New Jersey 07446

FOR THE BEST IN YEAR ROUND SERVICE, SUPPLIES AND TRAIN REPAIRS

Subscribe Today

ENJOY MODEL RAILROADING 12 MONTHS OF THE YEAR

Just about everywhere you go these days where real model railroaders get together, you'll hear the same thing—"RAILROAD MODEL CRAFTSMAN is the magazine for the real model builder." That's because we've been packing every issue with the very best model railroad material we can get, by the best authors in the field: modelers like Gil Melle', Joe Wilhelm, Chuck Yungkurth, Don Graff, along with RMC Staffers Russ Porter, Bill Schopp, and Hal Carstens.

FOR VETERAN MODELERS . . .

Every issue of RMC is balanced to provide every type of model railroad information and data. You'll find specially drawn plans for locomotives, cars, and structures. How-To-Do-It features on every phase of model railroading. Picture stories showing the finest layouts in all scales and gauges. And special departments with information not found elsewhere.

FOR BEGINNERS, TOO . . .

Every issue of RMC is packed with special material carefully slanted so as to be of interest not only to the real craftsmen, but to operators who prefer ready-to-run equipment as well. That's why more and more new modelers are finding RMC their type of magazine. Special articles show how to customize plastic models and get more fun out of operation.

SEND IN YOUR CHECK OR MONEY ORDER TODAY for a three, two, or one year subscription. You save more by taking long term subscriptions since we pass the renewal effort savings along to the subscriber

MAIL THIS COUPON TONIGHT!

Fill in the coupon below and mail to RMC along with your check or money order. We'll see that your subscription is entered with the issue requested.

SUBSCRIBER SERVICE 3025

Mail to: Miss Elizabeth Dickson, Circulation Manager, Railroad Model Craftsman, 6 East Main St., Ramsey, N. J. 07446.

Please include your RMC address label to insure prompt service whenever you write about your subscription.

To subscribe: mail this form with your payment, and check ☐ new subscription ☐ renew my present subscription.

Subscription rates in U.S.A. and Canada: 1 Year, $5.00; 2 years, $9.00; 3 years, $12.00. Add 50c per year for all other countries.

If you don't want to mutilate magazine, send your order and remittance in a letter.

FOR CHANGE OF ADDRESS

ATTACH LABEL HERE

If you're moving, please let us know six weeks before changing your address. Place RMC address label here, print your new address below. Be sure to include Zip Code. Canadians give city Zone No., if any.

name

street

city state zip

Please print or type legibly

Do not write in this box

R

ADVERTISING INDEX FOR AUGUST 1965 ISSUE

A

All Nation Line 61
Ambroid Company 5
America's Hobby Center 7, 8, 9
Associated Hobby Manufacturers 34, 35
Athearn, Inc. 10
Austin, M. B. 59

B

Baldwin Model Locomotive Works 10
Benty Hobby Supplies 51
Bowser Manufacturing Co. 13
Boyd, A. B., Co. 6

C

Cal-Scale 61
Central Valley 60
Champion Decal Company 11
Cliff Line 13
Crown Point Models 4

F

Frederick Manufacturing 50

G

Gardner "The Train Doctor" 59
Glenmore Hardware Co. 61
Gray, Max 50

H

Hobby House, Inc. 2
Hobby Prevue 60
Holley, Chester 51
Houston Sales Train & Hobby Center 51

I

International Models, Inc. 57

K

K & B Mfg. Corp. 10
Kadee Metal Products Co. 50
Kidder, Ken 61

L

Little Engines 13

M

Magazine File Co. 62
Main Line Models 60
Model Craftsman Pub. Corp. 12, 14, 15, 67
Model Die Casting Co. 51
Model Engineering Works 57
Model Railroad Products 58

N

Northeastern Scale Models 11

P

Pacific Fast Mail 68
Polk's Hobbycraft 62
Preston Nathan R., & Co. 11

R

Raham's, Paul, S Gauge Supplies 51
Railroad Model Craftsman 52, 57, 66

S

S Gauge Herald, Inc. 60
Schopp, William 13
Selley, Incorporated 62
Sherman House 6
Smith, Nicholas 13
Smooth Side Models Co. 58
Special Shapes Company 57
Steam Locomotives of Yesteryear 6
Strete, Al 59
Suydam, E., & Co. 58

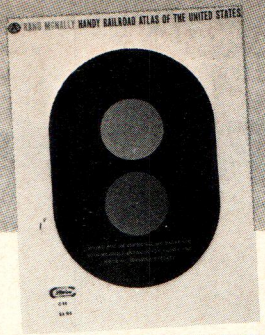
T

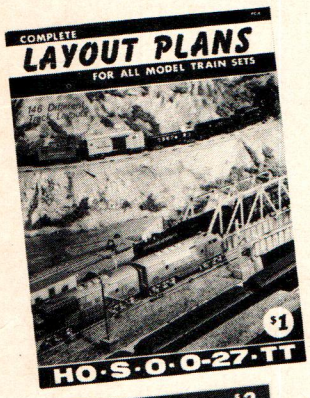
Trackside Specialties 58
Trost Model Craft & Hobbies 10
Tru-Scale Models 59

W

Walthers, Wm. K., Inc. 4
Western Model Distributors 4
Wright Enterprises 60

Your Hobby Dealer Has Carstens Hobby Books



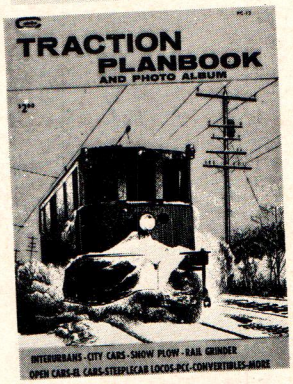


NEW RAILROAD ATLAS—RMC EDITION $3.95

Latest 1965 version of famous Rand-McNally Railroad Atlas, in a special Railroad Model Craftsman edition now listing all fifty states and latest railroad mergers. Contains special tables giving miles of track operated. Excellent for modelers and railroad enthusiasts.

TRACTION PLANBOOK & ALBUM.....$2.00

A cyclopedia of 62 different traction plans from the oldest single trucker to the latest in PCC and rapid transit types. Over 80 photos. Acclaimed by trolley fans everywhere as a must book.

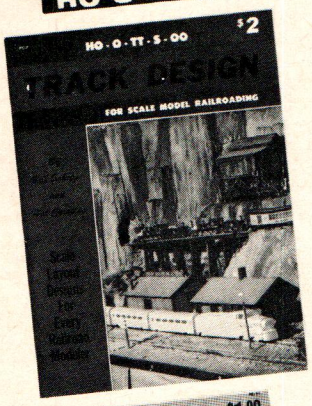


ROLLING STOCK PLAN BOOK.....$2.00

New revised edition with more plans, 119 different freight, passenger, and non-revenue cars in all. Also 68 prototype car photos. A book for scratch builders, detail artists, and railfans.

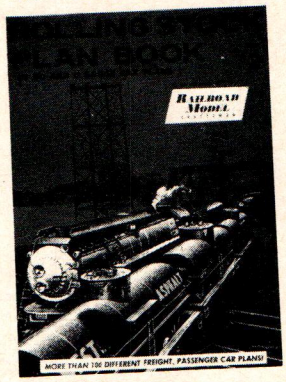
LIONEL STANDARD GAUGE ERA.....$2.00

Photos and text describing almost every major loco and car type made by Lionel in Standard Gauge from 1906 to 1941. Invaluable reference for collectors, armchair buffs, and dealers.



TRACK DESIGN.....$2.00

Scale layout designs to fit any space from 12 to 2700 feet. The best of the Layout Doctor's designs. Primarily for modelers who like to lay their own track but loaded with data for all railroaders. Covers all types of layouts: branches to super main lines.

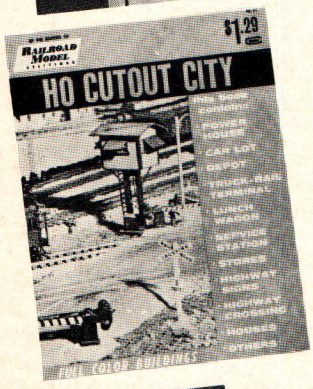


COMPLETE LAYOUT PLANS.....$1.00

A trackbook for those who prefer sectional track, whether in OOO, TT, HO, 0-27, O or Super-O. 146 track designs to fit every budget, space, or desire. Many shown in color complete with scenic suggestions. Special introductory chapter covering special problems.

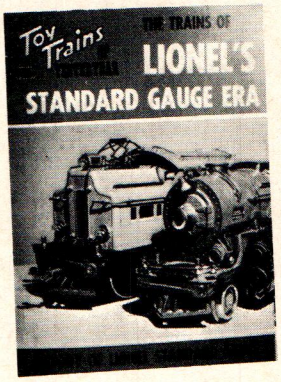
HO CUTOUT CITY.....$1.29

Latest printing of the famous RMC cutout books. Contains full color cutouts for making a complete HO city with stores, gas-station, rail-truck depot, crossing gates, power house, over 100 different highway signs, etc. Printed on heavy card, one side only. Also suitable for use with HO motoring sets.



NYO&W EMPLOYEE TIMETABLE NO. 44, JUNE 1898 .....$2.00

Authentic 16 page reproduction of rare 1898 NYO&W employee timetable No. 44, effective June 26, 1898. Measures over 8x14". Lists Chicago Express, milk and freight trains. Ideal for framing. A must for collectors, railfans, modelers, historians.

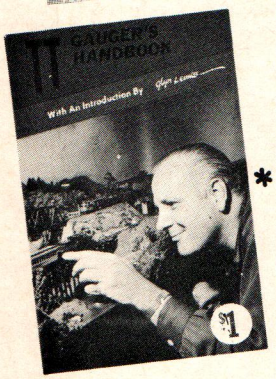


TT GAUGERS HANDBOOK.....$1.00

Every TT gauger needs this book. Glyn Lewis tells how he built his Hudson & Mohawk RR in 1/10 scale. Also plans for locos, cars, structures, trestles.

RAMSEY — 1905.....$1.50

Gorgeous full color lithograph print of Don Wallworth's painting showing the Erie depot at Ramsey, N. J. as it was in 1905. Mailed in protective tube, printed one side of sheet only. 11" x 16"



*

CARSTENS A PUBLICATION

IF YOUR LOCAL DEALER CAN'T SUPPLY YOU, ORDER DIRECT USING THIS CONVENIENT ORDER BLANK

NEW YORK, ONTARIO & WESTERN
RAILWAY COMPANY.
TIME TABLE No. 44.
Taking Effect 12.01 A.M. Sunday, June 26th, 1898.

MODEL CRAFTSMAN PUBLISHING CORP. Dept. 4055
P. O. Drawer C
Ramsey, New Jersey 07446

My dealer can't supply me. Please send the colorful Carstens Hobby Books I have checked below. I enclose $..... in check or money order. I understand that if I am not completely satisfied I can return any of the books within 5 days for full credit.

- ☐ Rolling Stock Plan Book, $2.00
- ☐ Track Design, $2.00
- ☐ Complete Layout Plans, $1.00
- ☐ TT Gaugers Handbook, $1.00
- ☐ Ramsey-1905 Print, $1.50
- ☐ Traction Plan Book, $2.00
- ☐ HO Scale Cutouts, $1.29
- ☐ Lionel Standard Gauge Era, $2.00
- ☐ 1898 NYO&W Time Table, $2.00
- ☐ RMC Handy Railroad Atlas, $3.95

Name .....

Street .....

City..... **State**..... **Zip**.....

TOTEMLAND '65

We at PFM take a great deal of pride in the models we import and distribute, and that's a fact we don't really attempt to hide.

We think its a deserved pride earned through the unstinting efforts of TENSHODO and UNITED artisans.

But there's another fact of our life of which we are equally proud, but this pride is more akin to gratefulness than anything else; this second fact is the Pacific Northwest, where we live and work.

Site of the 1965 NMRA Convention.

We recommend that you firm up those late August plans to attend your National Convention in Vancouver, B. C.

There's no doubt in our mind that you'll enjoy both the Pacific Northwest and the Totemland Convention.

And, we think you'll want to see some of our new and unadvertised offerings in quality HO models.

See you in Totemland?

UNITED SCALE MODELS

Tenshodo
"THE MARK OF QUALITY"

PACIFIC FAST MAIL

In the U.S.A.: P.O. Box 57
Edmonds, Wash. 98020

In Canada: 5816 Cambie
Vancouver 15, B. C.

(And by-the-way, have you seen and bought PFM's Full-Color 36-page catalog—Tenth Anniversary Edition — ? 50c direct or at your nearest friendly PFM Dealer. 75c in Canada, but at any price, your best bargain in HO.)